CONSTRUCTION NEWS

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RAILWAYS.

Maine.—Eastern Maine R. R.—This company, recently incorporated, proposes to build a railway from Brewer to Houlton. George W. Maxwell, Bangor, Me., is Pres. and Flavins O. Beal, Bangor, Me., is Treas.

New York.—Long Island R. R.—An agreement has been reached between the railway, the state of New York and the city of New York regarding the elimination of 29 grade crossings in the Borough of Queens. The entire work will cost about $3,000,000. J. R. Savage, Jamaica, N. Y., is Ch. Engr.

✚Pennsylvania.—Central R. R. of N. J.—The grading contract for the detour at Glen Onoka, to take the place of the condemned tunnel, has been awarded to I. L. McCORD, 42 Broadway, New York, N. Y.

✚North Carolina.—Southern Ry.—Contracts have been let to PORTER & BOYD, Charlotte, N. C., for building about 1½ miles of track at an estimated cost of $30,000. D. W. Lum, Washington, D. C., is Ch. Engr.

Georgia.—Gainesville & Northwestern Ry.—This new company contemplates building a line from Gainesville to Robertstown, about 35 miles. George J. Baldwin, Savananh, Ga., is interested.

Alabama.—Tombigbee Valley R. R.—Engineers are at work laying out an extension into the coal field of Walker, Fayette and Wisconsin Counties. The northern terminus of the line has not been determined. Wm. Toxey, York, Ala., is Ch. Engr.

Ohio.—Erie R. R.—Improvements to cost about $100,000, are contemplated in the vicinity of Akron. This includes terminal improvements and some double tracking. W. J. Harahan, 50 Church St., New York, N. Y., is Vice-Pres. in charge of Engineering.

Iowa.—Wabash R. R.—A line from Red Oak through Greenfield and Winterset to Des Moines, 110 miles, is projected. A. O. Cunningham, St. Louis Mo., is Ch. Engr.

North Dakota.—Farmers Grain & Shipping Co.'s R. R.—An extension from Hansboro north into Canada is planned. This line will cross the Canadian Pacific at Carberry, Man., and continue north. Joseph M. Kelly, Devils Lake, N. Dak., is Pres.

Texas.—Atchison, Topeka & Santa Fe Ry.—The railway from Longview to Ore City, known as the Port Bolivar Iron Ore Ry., plans further construction from Ore City to Clarksville on the Red River about 75 miles. Noted April 20.

Chicago, Weatherford & Brazos Valley R. R.—Financial arrangements have been made for the completion of the railroad being constructed between Weatherford and Bridgeport, Tex. It is announced that as soon as the road is finished to Bridgeport the work of constructing an extension of the line from Weatherford southwest to Lipan will be started. Motor passenger cars will be put on the new road. The line will penetrate the Bridgeport coal fields.

International & Great Northern R. R.—This company contemplates the construction of a line from Austin to Fredericksburg, 75 miles. It will cross Blanco County and go well into Gillespie County both of which are with railroad facilities. O. H. Crittenden, Palestine, Tex., is Consult. Engr.

Texas Central R. R.—Surveys are being made for a connecting link from Cross Plains, the present Western terminus, to Abilene, about 45 miles. W. A. Webb, Waco, Tex., is Gen. Mgr.

Oklahoma.—Wichita Falls & Northwestern Ry.—An advertisement appeared in the St. Louis Republican July 27 as follows: "Notice to contractors. We desire bids for the building of bridge, laying of track and surfacing 50 miles of road in Northwestern Oklahoma." It is signed by Wichita Falls & Northwestern Ry. Co., Wichita Falls, Tex.

Colorado.—Denver, Northwestern & Pacific Ry.—The immediate building of the Dotsero cut-off to connect the Denver & Rio Grande and the Moffatt road, has been decided upon, according to press reports The cut-off will extend from Orestod, on the Moffatt road to Dotsero on the Rio Grande 42 miles and the cost of building it will be about $4,000,000. L. D. Blauvelt, Denver, Colo., is Ch. Engr.

Idaho.—Pacific & Idaho Northern Ry.—Press reports are to the effect that this company will build an extension from Meadows to Lardo, about 10 miles. L. Highley, Weiser, Idaho, is Ch. Engr.

Oregon.—Southern Pacific Co.—Announcement has been made by J. P. O'Brien, Gen. Mgr. of the Southern Pacific in Oregon that construction of the line from Eugene across the Coast Range will be shortly started. The line as projected from Drain to Coor Bay will be about 70 miles long of heavy construction. G. W. Boschke, Portland, is Asst Gen. Mgr. in charge of engineering.

California. — Western Pacific Ry.—Press reports state that this company contemplates building a line through the San Joaquin Valley. T. W. Wycke, San Francisco, Cal., is Ch. Engr.

Ontario.—Algoma Central & Hudson Bay Ry.—The contractors for the construction of 101 miles of this line from Hobon on the Canadian Pacific to a point on the National Transcontinental, the Superior Construction Co., Ltd., (T. J. Kennedy and J. D. McArthur) inform us that many sections will be let to sub contractors. Communications should be addressed to the company, Espanola, Ont. Noted Aug. 3.

ELECTRICAL RAILWAYS.

(*✚Denotes a contract awarded.*)

✚Ludlow, Mass.—A contract has been awarded to the BIRNIE, ADAM & RUXTON CO., Springfield, for constructing a street railway system here for the Springfield Street Ry. Co.

Bridgeport, Conn.—O. G. Beard, Jr., L. E. Moulthrop and B. N. Beard are said to be considering plans to build an electric railway to connect Shelton and Bridgeport by way of Huntington Centre.

Saybrook, Conn.—A franchise has been granted to the Shore Line Electric Ry. Co. to lay additional tracks between its Saybrook-Esseg line and the Old Saybrook ferry, and to sell electricity in Lyme, East Lyme, Chester, Saybrook, Essex, Old Saybrook, Clinton and Madison. This company will furnish the electricity for the working of the new State toll drawbridge which will take the place of the present Old Saybrook-Old Lyme ferry. C. H. Welton, Saybrook, Conn., is Supt. and Purch. Agt.

Schenectady, N. Y.—The Schenectady Ry. Co. has been granted franchises, giving it permission to make several extensions. E. F. Peck, 420 State St., is Gen. Mgr.

✚Birdville, Pa.—A contract has been awarded by the Tarentum, Brackenridge & Butler Ry. Co. to SAMUEL GAMBLE, Carnegie, Pa., to build a 3½-mile railway from Birdville to Butler. J. M. Griffith and H. M. Brackenridge will report on the advisability of using Edison storage battery cars. Noted July 27.

New Castle, Pa.—The New Castle Connecting Street Ry. Co. has been incorporated to build a railway. W. G. Weimer, I. K. Norris, J. H. Corbett, J. E. White and Roy M. Jameson are the incorporators.

Wilmington, Del.—Plans have been prepared for the construction of an electric railway along the Delaware River from South Wilmington to connect the system of the Wilmington & Philadelphia Traction Co. with the New Castle & Delaware City Ry. at New Castle. The line will probably be extended later to Augustine Park.

✚Charleston, W. Va.—A contract has been awarded by the Charleston-Dunbar Traction Co. to THE STANDARD CONTRACTING CO., Charleston, for the construction of a 4-mile railway to connect Charleston and Dunbar. F. P. Grosscup is Pres., W. C. Davidson is Vice-Pres., H. Gluck is Treas. and J. F. McAndrew is Secy.

Mobile, Ala.—Articles of incorporation have been filed by the Mobile-West Shore Traction Co. to build a standard-gage railroad from Mobile to Alabama Port near the western shore of Mobile Bay. The officers are: H. Austill, Pres.; J. N. McAleer, Vice-Pres.; E. E. Posey, Secy. and Treas.; W. B. Delchamps, John R. Peavy and Charles G. Ollinger are directors.

Portland, Ind.—The Ft. Wayne & Springfield Traction Co. is securing rights-of-way and preparing to let a contract for the construction of a traction line from Springfield to Portland. A. W. Fishbaugh, Decatur, Ind., is Ch. Engr.

✚Gary, Ind.—A contract has been awarded by the Gary & Southern Traction Co to the AHLBOM CONSTRUCTION CO., Hammond, to complete the line from Ridge Row to 43d Ave. An effort wil be made to have cars running between Gary and Crownpoint by Dec. 1.

Kankakee, Ill.—The Kankakee-Urbana Traction Co. has voted a bond issue of $300,000, to be used for the construction of a railway between Kankakee, Champaign, Urbana and Villa Grove, about 75 miles. The section between Urbana and Rantoul will be built first. G. M. Bennett, Urbana, is Pres.

Peoria, Ill.—The Peoria & Quincy Traction Co. proposes to build a line 141 miles long, traversing the west side of the Illinois River valley, between Peoria and Quincy, Ill., with branches to Canton, Pekin and Rushville. A maximum grade of 4% and a curvature of not more than 4° will be aimed at on the final location surveys. It is estimated the line will be built for less than $22,000 per mile. Terminal agreements have been signed by the Peoria Terminal Ry. and the Illinois Central Electric Ry., and arrangements made with the McKinley System at Peoria for furnishing power. Robert H. Baldwin, Locating and Constr. Engr., 1243 Monadnock Bldg., Chicago, has completed the investigation and prepared a preliminary report. M. H. Meyers is interested.

Milwaukee, Wis.—The Milwaukee Western Electric Ry. Co. is planning to build an extension from North Lake to Hartford, and from Sussex to Waukesha. C. A. Chapman, Inc., 1537 Marquette Bldg., Chicago, Ill., is Engr.

Hamilton, Iowa.—Surveys are being made for the St. Louis-Rock Island Ry. Co., Keokuk, by the Mississippi River Power Co. for a line to connect Hamilton, Washaw and Keokuk.

Watertown, S. Dak.—Application has been made by Ferris Bros., managers of the Watertown Light & Power Co., for permission to build and operate railways for a period of 30 years.

✚Kansas City, Mo.—A contract has been awarded by the Kansas City, Clay County & St. Joseph Ry. Co. to CAMERON, McMANUS & JOYCE, Keokuk, Iowa, for grading five miles of the route on the Clay County side of the Missouri River. George S. Beardsley, Kansas City, is interested, it is stated.

Fort Smith, Ark.—The Fort Smith Light & Traction Co. will build a 10-mile extension of its line in the southern part of the city. L. R. Robertson, Fort Smith, is Ch. Engr.

Austin, Teg.—The Austin Electric Ry. Co. announces that it will extend its line to the site of the proposed dam across the Colorado River about three miles west of the city. W. J. Jones, 201 W. Sixth St., is Pres.

McKinney, Tex.—The Commercial Club of Tioga is promoting the construction of an interurban electric railway to run from McKinney to Gainesville, about 50 miles. The route of the proposed road is by way of Weston, Celina and Pilot Point to Tioga.

Guthrie, Okla.—Surveys are being made for an extension of the Oklahoma City-Yukon line to El Reno, one of the surveys being directly west to El Reno and two to the northwest from Yukon. It is understood the company is contemplating the building of the road to Richland and thence into El Reno over the Fort Smith and Western tracks, the latter company in turn using the interurban tracks into Oklahoma City.

Douglas, Ariz.—Plans are in preparation for a 20-mile narrow gage railroad to the town of Cumpus by the Transval Mining Co. O. C. Rasch is Mgr.

Phoenix, Ariz.—The Salt River Electric Co. has been organized by F. M. Winter, J. M. Swetnam, C. C. Lewis, Jacob K. Leak and W. S. Furman. Two lines are contemplated, one northeast to Peoria, 15 miles, and one east, having two branches terminating at Scottsdale, 11 miles, and Mesa, 18 miles. About $600,000 will be expended.

Bellingham, Wash.—The Bellingham, Mount Baker & Spokane Interurban R. R. Co. has been organized to build a railway from Spokane to Bellingham, 288 miles. It is announced that London capital is interested in the project. An estimate of cost is from $20,000,000 to $25,000,000. The road will traverse Spokane, Stevens, Ferry, Okanogan and Whatcom Counties by tidewater. Among the incorporators are Joseph Morrison; J. E. Morrison, Supt. of the Nooksack Valley Traction Co.; A. E. Mead, Bellingham; W. L. Hart, Blaine; F. Peace, Vancouver, B. C.; A. C. McLean, Seattle; and C. E. Wingate, Tilden, Wash.

Fowler, Cal.—The Fresno, Hanford & Summit Lake Interurban Co. has under consideration a plan to build a railway from Fowler to Hanford, about 23 miles. O. S. Heyden, Fresno, is Ch. Engr.

Santa Monica, Cal.—The City Trustees have granted a franchise to the Pacific Electric R. R. Co., to extend its lines on Ocean Ave. and Eighth St.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

Bangor, Me.—The Bangor Ry. & Electric Co. is preparing plans, it is stated, for the construction of a new substation.

Clarendon, Vt.—The Clarendon Power Co. has recently been incorporated, and is making arrangements for the erection of a power plant at Clarendon Gorge on the Mill River. It is expected to have the plant in operation by Jan. 1, 1912. L. B. Dow, of Boston, Mass., is Pres., and F. C. Davis, of Springfield, is secy.

✚Boston, Mass.—A contract for installing a heating and ventilating system in the Quincy School, for which bids were opened July 5, has been awarded to PIERCE & COX, at $9,717. The other bidders were: J. J. Hurley & Co., $9,948; Commonwealth Heating Co., $10,947; Hern-Furlong Co., $10,088; James F. Dwyer, $10,800; F. W. Zemier & Co., $10,996; C. H. Sanborn, $11,125.

Oneida, N. Y.—Bids will be received by Albert Morris, Chmn. Bd. Pub. Wks., until Sept. 15, extended from July 25, for lighting the streets and public places for a period of 1, 3 and 5 years.

✚New York, N. Y.—A contract has been awarded by the city to OSBORNE REA & CO., 241 W. 41st St., New York, at $12,521, for furnishing and installing boilers at the power house, Metropolitan Hospital Dist., Blackwell's Island. Bids were opened July 28.

New York, N. Y.—Plans have been prepared by W. Cullen Morris, 111 Woolsey St., Astoria, Long Island City, for the construction of a 1-story governor house, to be located at Fordham Road and Harlem River Terrace for the Consolidated Gas Co. The estimated cost is $30,000.

The application made by the Long Acre Electric Light & Power Co. to the Public Service Comn., to authorize a bond issue has been granted. Noted July 27.

✚Dolgeville, N. Y.—Two contracts have been awarded to P. B. McCAGNEY CO., Little Falls, for the replacing of the wooden dams at Dolgeville and Newport with concrete structures. The one in Newport is to be 9 ft. high and furnishes the power for the electric lighting company and other users in that section. The contract in Dolgeville was awarded by the American Felt Co. and is for a structure 7 ft. high.

New Oxford, Pa.—A municipal electric light plant is under consideration.

Trumbauersville, Pa.—Reports state that it has been decided to install an electric light plant.

Weatherly, Pa.—Plans are being considered to enlarge the municipal electric light plant.

✚Chester, Pa.—Improvements will probably be made to the street lighting system. Ornamental lamps will be installed on principal streets. The BEACON LIGHT CO. has been awarded the lighting contract with the city.

✚Pittsburg, Pa.—Contracts have been awarded by Joseph F. Guffey, Gen. Mgr. of the Allegheny Heating Co., a subsidiary of the Philadelphia Co., to RITER-CONLEY MFG. CO., for the erection of a gas holder at $500,000. Carroll Miller, Consult. Engr., is in charge.

Philadelphia, Pa.—Bids will be received until Aug. 15 by George R. Stearns, Dir. Pub. Wks., for aerial cable and appurtenances, Contract No. 114, Richmond Branch Elevated.

The Philadelphia Rapid Transit Co. is receiving bids for an addition to its power plant on Delaware Ave., the estimated cost of which is $25,000. H. B. Nichols, 820 Dauphin St., is Ch. Engr.

Washington, D. C.—Bids will be received at the Bureau of Supplies and Accounts, Navy Dept., Washington, until Aug. 15, for furnishing supplies at the various navy yards and naval stations, as follows: Newport, R. I., Schedule 3,802, furnishing and installing switchboard, panels, etc.; Schedule 3,810, switch for I-beam trolley. Brooklyn, N. Y., Schedule 3,800, forced-draft blowers; Schedule 3,815, 55,000 ft. interior communication cable, 50,000 ft. night-signal cable, 19,000 ft. interior communication cable, 80,000 ft. steel wire, copper-clad cable, 50,000 ft. plain double conductor, 50,000 ft. double silk conductor, 30,000 ft. telephone cord, 75,000 ft. bell wire, 1,000 ft. double conductor diving wire, 64,000 ft. single-conductor wire, 40,000 ft. single-conductor wire, 270,000 ft. twin-conductor wire. Portsmouth, N. H., Schedule 3,816, one dynamo. Brooklyn, N. Y., Schedule 3,816, annual supply of combination desk and bracket fans. Boston, Mass., and Norfolk, Va., Schedule 3,816, night-signal keyboards. Applications for proposals should designate the schedules desired by number.

Washington, D. C.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., until 3 p. m., on Sept. 15, for an electric elevator plant

to be installed in the U. S. post-office, Washington, D. C. Specifications may be obtained at office of the Supervising Architect or at the office of D. H. Burnham & Co., Archs., Chicago, Ill.

✚Washington, D. C.—A contract for furnishing eight 5,000-lb. and four 10,-000-lb. electric motor trucks for the Bureau of Yards and Docks, Navy Dept., Washington, D. C., has been awarded to the GENERAL VEHICLE CO., Long Island City, L. I., N. Y., at $49,000.

Alexandria, Va.—The Alexandria Lighting Co. is making plans, it is stated, to make improvements which will consist of an intake to be built of reinforced concrete and the construction of a 20-mile transmission line.

Morgantown, W. Va.—Surveys are being made by the Cheat River Development Co., which has recently been incorporated to develop power along the Cheat River. The work will include the erection of a dam and large power plant. Charles W. Held, W. L. Hyatt, John M. Gleason, Frank P. Weaver and Glenn Hunter, all of this city, are interested.

Hinton, W. Va.—The Dominion Power Co. has been granted permission to furnish power in Summers and other counties. J. J. Mott, Statesville, N. C.; J. A. Mott, Hickory, N. C.; Marion Butler, Eliott, N. C., and R. F. Dunlap, Hinton, W. Va., are the incorporators.

✚Charleston, S. C.—The Charleston Consolidated Ry. & Lighting Co. has awarded a contract for the erection of superstructure of the power house at the foot of Charlotte St., on the Cooper River, to J. W. LINDSAY & CO., Philadelphia Pa. The building will be two stories, 120 ft. square, of brick or cement, smokestack 200 ft. high. The equipment will include boilers of 2,640 HP., one 1,000-KW. turbo-generator, two 2,000-KW. turbo-generators, three 500-KW. rotary converters, 35-KW. motor-generator exciter, with switchboard, exciter, etc. The estimated cost is $200,000.

Honea Path, S. C.—A municipal electric light plant is under consideration. It is stated plans are being prepared and bids will be asked about Sept. 1. The estimated cost is $37,000. Thomas W. Cothran, Greenwood, S. C., is Engr.

✚Columbus, Ga.—The Columbus Power Co. awarded a contract to HARDAWAY CONSTRUCTION CO., Columbus, to increase the height of impounding dam at Goat Rock, on the Chattahoochee River, sufficiently to provide a head of 70 ft. The cost of the additional construction will amount to $1,-000,000. Stone & Webster Engineering Co., 147 Milk St., Boston, Mass., is in charge.

Woodlawn, Ala.—The Birmingham Ry., Light & Power Co., 2100 First Ave., Birmingham, Ala., is considering the installation of a gas tank in the vicinity of 64th St. A. H. Ford is Pres. and Gen. Mgr.

Shreveport, La.—An electric light plant is under consideration. Andrew Orfutt, New Orleans, has estimated the cost at $310,000.

Greeneville, Tenn.—A bond issue of $25,000 has been voted for water-works and an electric light plant, to be erected on the Nolachucky River, about five miles from Greeneville.

Pulaski, Tenn.—The State Legislature has legalized a bond issue of $20,-000 for the reconstruction of the municipal electric light plant. Plans are being prepared by G. L. Wheeler, Supt.

Danville, Ky.—A group of Boston capitalists are planning to develop the water power of Dix River, at Kennedy's Mill. The plans call for the construction of a concrete dam 110 ft. high. Richmond, Harrodsburg, Stanford, Lancaster, Danville and Nicholasville will probably be supplied with electricity. The cost is estimated at $1,250,000.

Lexington, Ky.—Plans for the new power house of the Kentucky Traction & Terminal Co., which recently took over the traction properties in and around Lexington, have been completed by Sargent & Lundy, Chicago, Ill., it is stated. Noted May 25.

New Concord, Ohio.—Plans are being prepared by Frank L. Packard, Heyden Bldg., Columbus, for a power plant to be installed at the Muskingum College.

St. Marys, Ohio.—W. K. Palmer Co., Engrs., Kansas City, Mo., has been retained to take charge of proposed improvements and extensions to the municipal electric light plant and water-works system. C. F. Lambert is Ch. Engr. in charge.

Cleveland, Ohio.—Bids will be received until Aug. 14 by Director of Public Service for constructing and delivering transformers for the municipal electric light plant. O. Hoffman is Secy.

Columbus, Ind.—A new street lighting system is under consideration. Cluster lamps will replace the arc lamps now in use.

Indianapolis, Ind.—Several hundred lamps will be required by the Indianapolis Light & Heat Co., which will be installed on various streets.

Oaktown, Ind.—The Oaktown Gas Co., recently incorporated, will soon ask for bids to construct and equip an artificial gas plant. William J. Walker, John F. Stolting and M. R. Polk are the incorporators.

✚Escanaba, Mich.—A contract has been awarded by the Bd. of Pub. Wks. to F. W. FREESE, Fort Wayne, Ind., for the construction of the new municipal gas plant. The estimated cost is $25,000.

Baraga, Mich.—Plans and specifications are being prepared by the Oscar Claussen Engineering Co., St. Paul, Minn., for an electric light plant and water-works system.

Rock Island, Ill.—A charter has been granted to the Eighteenth Street Improvement Association to maintain a system of ornamental post lights. H. S. Cable, W. L. Gansert and others are the incorporators.

✚Appleton, Wis.—The Fox River Paper Mills Co. has awarded the contract for an 800-HP. tandem compound poppet valve Seizer type Swiss engine to NORDBERG MANUFACTURING CO., Milwaukee, Wis.

✚Menasha, Wis.—The Common Council has contracted for the following described equipment for the municipal electric light and power plant: 225-HP. Deisel engine, DEISEL ENGINE CO., at $15,200; one 200-KW. generator, switchboards, etc., WAGNER ELECTRIC CO., at $2,900.

✚Mendota, Wis. — The Wisconsin State Board of Control has awarded the general contract for the construction of the new power plant at the State Hospital for the Insane, to T. C. McCARTHY, Madison, Wis., at $38,850. The contract for constructing the chimney and stack was awarded to the HINE CHIMNEY CO., Chicago, Ill., at $4,300. M. J. Tappins is Secy.

Roland, Iowa.—Bids will be received until Aug. 15 by J. A. Christian City Clk., for the installation of an electric light plant. The Ames Engineering Co., Ames, Iowa, has charge of the engineering work.

Brown Valley, Minn.—A bond issue of $10,000 has been voted to be used to erect a plant and install an electric light system.

Minneota, Minn.—An electric light plant is being considered. The estimated cost is $10,000.

St. Paul, Minn.—The installation of a street lighting system is being considered by the Bd. Pub. Wks., to be in operation by Jan. 1, 1912. The cost is estimated at $50,000.

Englewood, Kan.—See item under Water Supply-Irrigation.

Minot, N. Dak.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., are preparing plans for the installation of an electric light system.

Plankinton, S. Dak.—W. A. Kuntze has been granted a franchise to build an electric light plant.

Cape Girardeau, Mo.—The Cape Girardeau-Jackson Interurban Ry. Co. are preparing plans for the construction of a substation, contracts for which will be awarded within the next six months, it is stated.

Lamar, Mo.—Rollins & Westover, Consult. Engrs., Beals Bldg., Kansas City, Mo., are preparing plans for proposed improvements to the electric light system and water-works. The estimated cost is $75,000.

Kirkwood, Mo.—A bond issue of $15,-000 is under consideration, to be used to improve the electric light plant.

St. Louis, Mo.—A power plant is under consideration and, it is stated, Thomas Dies, City Building, Comr., has had plans prepared and an estimate of $40,000 made.

Beaumont, Tex.—The Stone & Webster Engineering Corporation, of Boston, Mass., has obtained an option until Oct. 3, to purchase all of the holdings of the Beaumont Ice, Light & Refrigerating Co. with the exception of its ice and refrigerating plant. The property involved is the local electric lighting system and power plant. It is stated that these will form a nucleus for an extensive system of electric railway in this city and an interurban railway to run between here and Port Arthur, 25 miles. Representatives of the Stone & Webster Engineering corporation have just made a complete inspection of the property.

✚Cleburne, Tex.—A contract has been awarded to H. D. McCOY, Cleburne, by the Gulf, Colorado & Santa Fe Ry. Co., for the construction of a power house, to cost about $13,000.

Floresville, Tex.—The installation of an electric light plant and ice plant is being considered. J. H. Bell, San Antonio, is interested.

Fort Worth, Tex.—The Fort Worth Power & Light Co. has recently been incorporated and will take over the property and holdings of J. R. Nutt, who is constructing a plant in Fort Worth. J. R. Nutt and George Holbrook, of Cleveland, Ohio; George T. Reynolds and T. B. Yarbrought, of Fort Worth, are the incorporators.

Pawhuska, Okla.—A $60,000 bond issue has been voted, the proceeds of which will be used for improvements to the electric light plant and water-works system.

✚Port Angeles, Wash.—The Olympia Power Co. has awarded a contract to P. J. WOODS, at $18,000, for clearing the right-of-way and furnishing cedar poles for its proposed transmission line from Port Angeles to Irondale. The company will erect the transmission line.

✚Port Orchard, Wash.—A contract for construction of the power house and heating plant to be installed at Washington Veterans' Home, for which bids were opened July 24, has been awarded to PAUER & PETERS, Seattle, at $4,620.

Walla Walla, Wash.—The City Clerk will advertise for bids for supplying electricity for arc and cluster lamps for five and ten years.

Grandview, Wash.—The Pacific Power & Light Co. has been granted the right to erect electric lines for lighting and power purposes.

Pendleton, Ore.—W. C. Knighton, State Arch., Salem, Ore., has prepared plans, it is stated, for the installation of a power plant for the new State Insane Hospital.

Sacramento, Cal.—Bids will be received by N. Ellery, State Engr., until 12 m., on Aug. 12, for an electric lighting system, to be installed on the Capitol grounds. Plans and specifications are on file at the State Dept. of Engineering.

San Bernardino, Cal.—T. A. Worthley, Riverside, representing the California-Nevada Light & Power Co., has been granted a franchise to construct and maintain power lines. Noted July 20.

Mill Valley, Cal.—The Mill Valley Gas & Electric Co. has recently been incorporated. Application for a franchise to lay mains and install a gas plant has been made. The estimated cost is $100,000. Dr. Ferdinand Butterfield, E. de Los Magee and J. Schlingmann are the directors. It is also said to be the intention of the new company to erect a garbage reduction plant to handle all the refuse of Southern Marin County.

Toronto, Ont.—An electric light plant, to be installed at the new General Hospital on College St., is under consideration. J. W. Flavelle is Chn. of the Hospital Board.

BRIDGES.

(✚Denotes a contract awarded.)

Boston, Mass.—Bids will be received until Aug. 11 by the Public Works Department, for replanking West Fourth St. bridge, South Boston. Louis K. Rourke is Comr. Pub. Wks.

Quincy, Mass.—Bids for widening the draw of the Weymouth Fore River bridge have been received by the Commissioners of Norfolk County, as follows: Boston Bridge Co., $54,624; New England Structural Iron Co., $59,400.

Whitesboro, N. Y.—Bids will be received by the Town Board until 7.30 p. m., Aug. 15, for constructing a bridge over Sauquoit Creek. The cost is estimated at $6,000.

New Rochelle, N. Y.—See item under Sewers.

✚Belvidere, N. J.—The Bridge Committee of the Warren County Board of Freeholders have awarded a contract for a steel and concrete bridge over the Pequest Creek, at Hardwick St., Belvidere, to P. A. HENNESSY, Mt. Vernon, N. Y., at $7,450.

Butler, Pa.—Press reports state that the Butler Passenger Ry. Co. has received a franchise from the City Council to build a 750-ft. viaduct in Center Ave., over the Bessemer & Lake Erie R. R. and the Baltimore & Ohio R. R. tracks. W. H. Page, Butler, is Gen. Mgr.

Easton, Pa.—Bids will be received by the County Commissioners until Aug. 11, for constructing a reinforced-concrete highway bridge, 36-ft. span, over Martin's Creek, in Upper Mt. Bethel Township. Young & Reese, Pomfret Bldg., Easton, are County Engrs.

Philadelphia, Pa.—Bids will be received until Aug. 15, for constructing three bridges, estimated at $73,000. Henry M. Quimby is Design Engr., and George S. Webster is Chief, Bureau of Surveys.

Reading, Pa.—Bids will be received by A. L. Rhoads, County Contr., until 10 a. m., Aug. 17, for constructing a reinforced-concrete bridge in Exeter Township.

Johnsonville, Pa.—Bids will be received by the Commissioners of Northampton County, Easton, Pa., until 10 a. m., Aug. 11, for the construction of a 36-ft. reinforced-concrete highway bridge, with 16-ft. roadway, over Martin's Creek, in Upper Mt. Bethel Township, about one mile northwest of Johnsonville. Plans, etc., are on file at the office of the Commissioners. Young & Reese, Pomfret Bldg., Easton, are Engrs.

Washington, Pa.—Bids for constructing the Monongahela bridge, a 110-ft. through truss span with 24-ft. roadway, were received on Aug. 4 by John H. Moffitt, County Controller, as follows: Nelson Merydith Co., Chambersburg, Pa., $8.562; John Eichleay, Jr., $9,294; Capital Construction Co., $9.468; Fort Pitt Bridge Works, $9,674; E. D. Neel, $9,995; Roger Brothers Co., $10,-557; Penn Bridge Co., $11,000. Noted Aug. 3.

Womelsdorf, Pa.—Bids will be received by A. L. Rhoads, controller of Berks County, Reading, until 10 a. m., Aug. 14, for repairing the Womelsdorf bridge. Specifications can be obtained at the office of the County Commissioners, Reading.

✚Sharptown, Md.—The State Roads Commission has awarded a contract for the construction of a bridge across the Nanticoke River to the ROANOKE BRIDGE CO., Roanoke, Va., at $52,-229. The bridge will connect Dorchester and Wicomico Counties. Noted July 6.

Leesburg, Va.—Bids will be received by P. St. J. Wilson, State Highway Comr., at the office of the Clerk of the Circuit Court, Leesb... until noon, Aug. 14, for bridg... struction, as follows: A 36-ft. r... ced-concrete span over Clarkes Br... a 44-ft. reinforced-concrete spa... ver Tuscarora Creek, and a 173-ft. st... tructure over Catoctin Creek.

Washington, Va.—... will be received by P. St. J. W... State Highway Comr., at the o... f the Clerk of the Circuit Court, ... ngton, until noon, Aug. 15, for c... cting a 74-ft. steel bridge, with c... te substructure, over the south ... n of Thornton River, and a sim... structure, 54 ft. long, one mile d... Plans are on file with the Chi... Sunday Co., Richmond.

✚*Shreveport, La.—... are officially advised that the co... t for constructing a steel tr... bridge over Red River, at Shrevep... was awarded on Aug. 1, to PET... cGEE, Kansas City, Kan., at $7... The other bidders were: Midland ... ge Co., Kansas City, Kan., $99,45...; ... issouri Valley Bridge Co., Lea... vorth, Kan., $97,500; J. W. McMu... Contracting Co., Kansas City, Kan... 4,336; Union Bridge & Constructi... o., Kansas City, Mo., $92,510. L. H... ker is Secy.-Treas., and Hedrick & ... chrane, 1118 McGee St., Kansas City, ..., are Engrs. Noted July 13.

Tallulah, La.—Bids will be received at the office of Police Jury, Madison Parish, Tullulah, until Aug. 28, for the construction of a steel bridge across Joe's Bayou at head of Joe Bayou Lake. The structure will be 130 ft. long, with a 75-ft. span and a 12-ft. roadway. A. L. Slack is Secy.

Carrollton, Ky.—Bids will be received by the Carrollton & Prestonville Bridge Co., J. E. Gullion, Receiver, Carrollton, until noon, Aug. 15, for repairing the bridge across Kentucky River at Carrollton, according to plans on file with Pierce Butler, Norton Bldg., Louisville, Ky., Engr.

Lancaster, Ohio.—Bids will be received by the Commissioners of Fairfield County until 10 a. m., Aug. 28, for constructing the steel superstructure of the Harman bridge in Walnut Township. Palmer Howard is County Audr.

Cincinnati, Ohio.—Bids will be received by the Commissioners of Hamilton County until noon, Aug. 25, for constructing a concrete bridge on the Taylor Creek Road, in Springfield Township. Stanley Struble is Pres. Bd., and Fred Dreihs, Clk.

Collinsville, Ohio.—Bonds for $9,500 will be issued by the County Commissioners for constructing a bridge over Sevenmile Creek at Grand Boulevard.

Youngstown, Ohio.—Bids will be received by the Board County Commissioners until Sept. 2, for constructing a steel bridge, 225 ft. long, over the Youngstown & Southern R. R. tracks on the Dewey Ave. extension. W. B. Jones is County Audr.

Indianapolis, Ind.—Bids will be received by the Commissioners of Marion County until 10 a. m., Aug. 12, for the construction of a bridge over Eagle Creek, in Washington St., and for several culverts in Wayne Township. Albert Sahm is County Audr.

New Albany, Ind.—Bids will be received by the County Commissioners until Aug. 10, for constructing a highway bridge over Big Indian Creek at Atkins Ford, on the Mooresville and Scottville Road.

***Chicago, Ill.**—We are officially advised that bids for constructing the superstructure of a bascule bridge over the south branch of the Chicago River at Washington St., were received on Aug. 5, as follows: Fitz Simons & Connell Dredge & Dock Co., 131 La Salle St., Chicago, $110,000; Great Lakes Dredge & Dock Co., $120,000; Marquette Construction Co., $126,000; John J. Galleny, $145,000. L. E. McCann is Comr. Pub. Wks. Noted July 27.

Peotone, Ill.—Bids will be received at the Town Hall, until 2 p. m., Aug. 11, for constructing a 35-ft. span reinforced-concrete bridge in Peotone Township. E. C. Yonker is Town Clk.

Shawneetown, Ill.—Bids will be received until 4 p. m., Aug. 12, for constructing a 40-ft. reinforced-concrete bridge in Bowlesville Township. Estimated amount of concrete in structure, 446 cu. yds.; reinforcing steel, 56,601 lbs. Edward Capehart is Town Clk.

✚Woodland, Ill.—The contract for constructing a concrete bridge 161 ft. long with three 50-ft. spans and an 18-ft. roadway, has been awarded to JOSEPH KLEIN, Freebury, Ill., at $7,890.

Kimberly, Wis.—The Commissioners of Outagamie County are considering the construction of a steel bridge over the Fox River at Kimberly. The estimated cost is $35,000.

Anoka, Minn.—Press reports state that bids will be received by Arthur A. Caswell, County Audr., until Aug. 17, for the construction of two steel and concrete bridges and two reinforced-concrete culverts.

Minneapolis, Minn.—Bids will be received by Al. P. Erickson, Audr. Hennepin County, until 11 a. m., Aug. 21, for repairing bridge No. 2. Specifications are on file at the office of the County Surveyor.

Lawrence, Kan.—Bids will be received by the Board of Commissioners of Douglas County until noon, Aug. 19, for the construction of a 42-ft. span highway bridge. W. R. Green is County Clk.

Success, Ar—Bids will be received until Aug. 2 for constructing a 150-ft. span steel bridge on concrete piers, over the Little Rock River at Success. B. B. Holifield, Rector, Ark., is Engr.

Kent, Wash.—Bids will be received about Aug. 2 by the Commissioners of King County, at Seattle, for furnishing steel for 133-ft. steel pin-connected span, according to plans and specifications on file with the County Engineer. A. Case is Clk. Comrs.

Arcata, Cal.—Bids will be received by the Board of Supervisors of Humboldt County, Eureka, Cal., until 2 p. m., Aug. 15, for constructing a trestle bridge over Jacoons Cre k,e and trestle bridges over Bluff and Slate Creeks. Geo. W. Co... Eureka, is Clk.

Haywards, Cal.—Bids will be received by the Board of Supervisors until 10 a. m., Aug. 14, for the construction of a ... bridge and retaining wall on the Hayward-San Leandro Road near the junction with Castro Valley Road. John P. Cook is Clk.

Los Angeles, Cal.—Bids will be received by the Board of Supervisors of Los Angeles County, until 2 p. m., Aug. 14, for constructing a pile trestle bridge on Higuera Road. H. J. Lelande is County Clk.

Quebec, Que.—Bids will be received until Aug. 21 by L. K. Jones, Secy. Dept. Railways & Canals, Ottawa, for the removal of unused material delivered on the ground intended for use in connection with the construction of the Quebec bridge. Specifications, etc., may be obtained on application to the Department, Ottawa, or from the Chief Engr. Board of Engineers Quebec Bridge, Canadian Express Bldg., Montreal, or their office in the Board of Trade Bldg., Quebec.

Whitehead, Man.—Bids will be received until noon, Aug. 25, for building a double or single span steel bridge, and two cement abutments across the Little Saskatchewan River on the old site on Section 34, Township 10, Range 20. Plans and specifications may be seen at the Department of Public Works, Winnipeg, and at the office of McDiarmid & Clark, Brandon, Man. M. Eaton, Box 107, Alexander, Man., is Secy.-Treas.

Trail, B. C.—Bids will be received until Aug. 31 for constructing the superstructure of a bridge over the Columbia River at Trail. Drawings, specifications, contract and forms of tender can be seen at the offices of the government agents at Rossland, Nelson, New Westminster; E. McBride, Esq., Road Supt., Fairfield Bldg., Vancouver, and at the office of J. E. Griffith, Pub. Wks. Engr., Victoria.

✚Vancouver, B. C.—A contract has been awarded to A. G. LANGLEY & CO., Vancouver, for constructing a suspension bridge for the Provincial Government of British Columbia, over Churn Creek, in the Lilloet District. The cost is estimated at $80,000.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

Boston, Mass.—The Boston Elevated R. R. will soon commence the work of modifying the Sullivan Square Terminal to permit of the use of 8-car trains and also to allow the use of the station while the connection for Malden is being arranged. The extension to Malden Sq. is being prepared for by the tearing down of buildings and construction will soon begin. Geo. A. Kimbal is Ch. Engr. of the B. E. R. R.

A hotel building to cost $40,000 is about to be erected at Washington St. and Adams Pl., Roxbury. It will be of brick and concrete construction, three stories, 48 × 115 ft. R. J. Culbert is the Arch. The Associated Trust, both of 141 Milk St., is the owner.

✚The contract for the construction of the 15 buildings comprising the Peter Benett Brigham Hospital on Huntington Ave. was awarded Aug. 1 to the WELLS BROS. CONSTRUCTION CO. These buildings cover about ten acres. Codman & Despradelle are the Archs.

A 12-apartment block to cost $40,000 is about to be built for Eli Darrow on Westview St., Dorchester District. To be of brick, three stories, 48 × 124 ft. Everett Gonyon, 39 Court St., is the Arch.

A $100,000 building is planned in East Boston by the Catholic Building Association. To be five stories, of steel construction, for business and society purposes. John McLaughlin is Pres. of the Ass'n.

Several school buildings are planned in the near future, one of 12 rooms on Magnolia St., Dorchester, another in the Phillips Brooks District; also a high school of practical arts, an addition to the girls high school, and an annex to the Roxbury high school. Chas. Logue is Chn. Schoolhouse Comrs.

✚Chicopee, Mass.—The contract for the erection of a clubhouse for the French Union Society, has ben awarded to JOSEPH G. ROY, Springfield. To be of brick and stone, three stories, 50 × 100 ft., and to be for stores and society rooms. Geo. H. Fugere is the Arch.

✚The contract for the 4-story brick and limestone apartment block on Broadway for L. N. Lyon has been awarded to GEORGE H. FUGERE, Chicopee Falls. R. E. Geckler, Springfield, is the Arch.

Gardner, Mass.—The Boston & Maine R. R. plans a station to be erected near the present Heywood station. E. L. Corthell is Ch. Engr.

Holyoke, Mass.—A group of mill buildings is in contemplation by William Skinner & Sons. The cost of this plant is estimated at $150,000, and it is planned to have them finished in as short time as possible.

Lynn, Mass.—A clubhouse is planned by the de la Salle Court Catholis Order of Foresters on Boston St. Frank L. Burns is Chn. of Bldg. Com.

New Bedford, Mass.—A church, schoolhouse and rectory will be erected for the Immaculate Conception Parish on Davis St. Murphy, Hindle & Wright, 146 Westminster St., Providence, are the Archs.

Orange, Mass.—Bids will be received until 1 p. m., Aug. 12, by the building committee for enlarging and remodeling the town hall. H. M. Francis & Sons, 387 Main St., Fitchburg, are the Archs.

Springfield, Mass.—A $48,000 block of 28 apartments is planned on Long Hill St. W. V. McCarthy is Pres. of the syndicate.

✚The contract for the brick laundry and concrete stable for John E. McCarthy has been awarded to GAGNIER & ANGIERS, 327 Main St.

Somerville, Mass.—The erection of a $40,000 apartment block on Highland Ave. by J. E. Mowatt, 7 Oxford St., is about to be begun. To be of brick, three stories, 50 × 80 ft.

Holyoke, Mass.—Plans are being figured for the erection of a 5-story store and apartment block at Maple and Appleton Sts. for Stanislaus Ducharme. The building will be 55 × 122 ft., of light pressed brick with limestone trim; the first two stories are to be of fireproof construction. George P. B. Alderman & Bro. are the Archs.

William F. and Samuel R. Whiting have donated funds for an addition to the city hospital which will be known as the Whiting Administration Building. It will be about 50 × 135 ft., of brick and four stories high. It is also planned to raise the present central building one story.

Northampton, Mass.—B. H. Seabury, of Springfield, Mass., has completed plans for a theatre building to be erected on Pleasant St. for John T. Dewey. It will be of red brick with brownstone trim, about 65 × 80 ft. and will have a seating capacity of 1,100.

✚Springfield, Mass.—The contracts for the new store and tenement block to be erected at Morgan and North Sts. for Henry and Rebecca Glickman have been awarded as follows: Mason work, PAUL T. CURTIS; carpenter work, TALLIN & KAPLAN; plumbing, M. COHEN; roofing, H. J. PRATT & CO. The building will be of brick, 62 × 87 ft., and four stories high. Bruno Wozny, Springfield, Mass., is the Arch.

Swampscott, Mass.—A 16-room school house is to be built at once in Reddington St. to cost about $88,000. W. H. Bates is Chn. of Selectmen.

Providence, R. I.—Bids will be received by the Board of Contract and Supply until Aug. 15 for constructing an athletic building in Roger William Park. Plans were prepared by Hoppin & Field, 32 Westminster St., Providence.

Bristol, Conn.—Bids were received as follows on July 24, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Bristol, Conn.: William Werner, Brooklyn (a) $79,985; (b) $82,800. William H. Fissell & Co., New York, (a) $69,700; (b) $72,500. King Lumber Co., Charlottesville, Va., (a) $54,800; (b) $56,800. Merrick Fire Proofing Co., New York, (a) $68,200; (b) $69,400. Conners Bros. Co., Lowell, Mass., (a) $63,300. Woodberry & Leighton, Boston, Mass., (a) $60,774.

✚New Haven, Conn.—It is reported that the contract has been awarded by C. C. Haight, Arch., 452 Fifth Ave., New York City to SPERRY & TREAT, New Haven, Conn., for the laboratory for Yale University. The cost is about $330,000.

✚The contract has been awarded to SPERRY & TREAT, New Haven, for the construction of the Wright memorial dormitory at Yale University. The cost is $300,000.

New Haven, Conn.—Philip Sellers, 756 Chapel St., is drawing plans for a 3-story building, 40 × 140 ft., of brick and steel to be erected on Chapel St. for S. S. Kresage & Co., of New York. The building will be used as a five and ten cent store and will be heated by steam.

✚New Haven, Conn.—The contract for a $40,000 residence for Prof. G. H. Mettleton, St. Ronan St., has been awarded to D. H. CLARK CO. Grosvenor Atterbury, New York City, is the Arch.

✚Hartford, Conn.—O'NEIL & SWENSON, of Hartford, have been awarded the general contract for the erection of an apartment hotel building at Church and High Sts. for Richard J. Dillon. The building will be 80 × 140 ft., seven stories high, first story of gray pressed brick, second to fifth stories of red brick and seventh story of red brick with light gray brick and limestone trimmings; there will be 97 apartments, each equipped with telephone and vacuum cleaning system and bathroom with tile floor and wainscoting. An electric passenger and freight elevator will be required. L. D. Bayley, Hartford, Conn., is the Arch.

Stamford, Conn.—Bids will be received until Sept 15 for the erection of a church edifice at Bedford Park, for the First Congregational Society. The plans are by G. F. Newton, Arch., 6 Beacon St., Boston, Mass., and provide for a building 145 × 82 ft., of stone with a tower 70 ft. high. The first floor will contain the main auditorium, pastor's study and Sunday school rooms, and the basement, the kitchen and social rooms. The cost will be about $60,000. The pastor, Rev. Lewis F. Berry, is Chn. of the building com. Noted Aug. 3.

New Britain, Conn.—Plans have been received by the New Britain Lodge of Elks from Walter P. Crabtree and Unkiebach & Perry, Archs., for the new home to be erected on Washington St. It is said the building will be 100 × 50 ft. of brick construction and will cost $40,000.

Plainville, Conn.—Bids are being received for a school building. Unklebach & Perry, New Britain, are the Archs.

North Tonawanda, N. Y.—It is reported that a federal building will be erected here at a cost of $80,000. Plans have practically been decided upon. The building will be 85 ft. long by 70 ft. wide, two stories high, and will be constructed of pressed brick with terra cotta trimmings. The foundation will be of cut stone. There will be an entrance on the Oliver St. side. The building will be set far back from both streets as the government has purchased a large site at the corner of Goundry and Oliver Sts., which measured about 175 ft. both ways.

Schenectady, N. Y. — The General Electric Co. will erect, early next fall, a $75,000 club house for employes at Schenectady.

✚Syracuse, N. Y.—The trustees of the First Baptist Church, have contracted for a $250,000 edifice at East Jefferson and Montgomery Sts. Gordon Wright is Arch. ROBERT MONTGOMERY and O'CONNOR BROS., this city, have the carpenter and masonry contracts, respectively.

✚Albany, N. Y.—The Trustees of Public Buildings received bids on Aug. 3 for the reconstruction of the burned portion of the State Capitol. Owing to the fact that it was impossible to accurately estimate the amount of work to be done, bids were asked on a percentage basis on a rough estimate of $200,000. The bids received were: (1) For profit; (2) for overhead charges; (3) for erection of plant: Callanan & Prescott, Albany, N. Y., (1) 7½%; (2) 2%; (3) nothing. Raymond Booth, Albany, N. Y., (1) 5%; (2) 2%; (3) $5,000. R. T. Ford Co., Albany, N. Y., (1) 10%; (2) 3%; (3) $10,000. Barnard Gorman Construction Co., New York, (1) 7½%; (2) 2½%; (3) $15,000. The contract was awarded to CALLANAN & PRESCOTT, who have just completed the work of removing the debris. Governor John A. Dix is Chn. of the Trustees of Pub. Bldgs.

Bedford, N. Y.—Richard Rutledge has sold his 135-acre farm at Bedford Mills to the State of New York as a site for a hospital for women, to be conducted in connection with the reformatory for women at Bedford.

Garden City (L. I.), N. Y.—The contract has been awarded to WILLIAM L. CROWE CONSTRUCTION CO., 289 Fourth Ave., New York City, at $450,000 for enlarging the Garden City Hotel. Plans by Ford, Butler & Oliver, 103 Park Ave., New York City.

Astoria (L. I.), N. Y.—Astoria Building Co., has secured a permit to erect eight 3-story brick tenements at Frand, 16th and 17th Aves. Cost, $66,000.

Buffalo, N. Y.—The Buffalo General Electric Co. has secured a permit for a $421,000 steel, brick and terra cotta office building at 39 East Genesee St.

***Comstock, N. Y.**—Bids will be received by Joseph F. Scott, Supt. of State Prisons, Albany, N. Y., until 12 m., on Aug. 31, for the construction, complete, of the Great Meadow Prison. Plans and specifications may be obtained at the office of the Warden, Great Meadow Prison, or at the office of F. B. Ware, State Arch., Albany, N. Y.

New York, N. Y.—Plans have been prepared by William Higginson, 21 Park Row, for the construction of a 4-story warehouse, 100 × 200 ft., for Thomas Roulston. The building will be located at Ninth and Tenth Sts., near Second Ave. The cost is $60,000.

A 9-story elevator apartment house will be erected by the Brixton Construction Co., 808 West End Ave., at 87th St., west of West End Ave. The cost is $290,000. Plans are being prepared by Rouse & Goldstone, 38 West 32d St.

Plans are being completed by Schwartz & Gross, 347 Fifth Ave., for the construction of a 12-story apartment house, 102.2 × irregular, to be erected at Park Ave. and 83d St. The cost is $300,000. The Arkon Building Co., 505 Fifth Ave., is owner.

Plans are being completed by Schwartz & Gross, 347 Fifth Ave., for the construction of an 8-story elevator apartment house for Ferguson Bros. & Forshay, 700 West 180th St. The building will be erected at 40th St., east of Park Ave. The cost is $100,000.

Plans are being completed by William A. Boring, 32 Broadway, for the construction of a 12-story elevator apartment building, 60 × 90.5 ft. for the 521 Park Avenue Co., 2 Rector St. The cost is $350,000.

Plans are being prepared by Schwartz & Gross, 347 Fifth Ave., for the construction of a 10-story apartment house at Broadway and 110th St. Phillip Livingston, 1 East 60th St., is the owner.

A 6-story tenement house, 56.3 × irregular, will be constructed by the Belrose Realty Co., 309 Broadway. The building will be erected at 150th St. and Macomb Pl. The cost is $75,000. Plans by George L. Wills, 1 Union Sq.

Joseph Paterno will erect two 16-story elevator apartments on the block front on the west side of Broadway between 115th and 116th Sts. The cost is about $2,000,000.

A 6-story tenement building will be erected by Samuel Root, 65 East 97th St., at 44th St. west of Ninth Ave. Plans are being prepared by George L. Wills, 1 Union Sq. The cost is about $50,000.

Plans are being completed by Rouse & Goldstone, 40 West 32d St., for the construction of a 12-story apartment house, 50×100 ft. for the Marmack Construction Co., 316 West 30th St., at 747-749-751 West End Ave.

An appropriation of $85,000 has been approved by the Aldermen for the construction of five alarm headquarters in a fireproof building in Central Park. The building will occupy a site on Transverse Rd.

Bids will be received August 15 by Michael J. Drummond, Comr., Dept. of Public Charities, East 26th St., New York, for furnishing all labor and materials necessary or required for certain excavation, masonry, steel and iron work, painting, plumbing work, power work and machinery, refrigerating work, electric work, and all other work for the completion of an administration building, a surgical pavilion, a storage kitchen and dining hall building, a service tunnel and covered corridor connecting buildings, and a power house, ambulance and laundry building, and also the power work and machinery, and the like, for six ward pavilions (now under contract) for the Sea View Hospital, situated on the property of the department of public charities, Boro. of Richmond, the city of New York.

New York, N. Y.—Bids are being received by Maynicke & Franke, 25 East 26th St., on the general contract for the 6-story warehouse to be erected by the New York Dock Co., 8 Bridge St., New York City, at the Erie Basin, Imlay St., Brooklyn. The cost is about $500,000.

The Board of Estimate appropriated $500,000 in corporate stock for the construction of a new terminal for the Manhattan end of the Brooklyn Bridge. When completed the improvement will cost the city $2,500,000.

Niagara Falls, N. Y.—Within the next 30 days bids will be received for the erection of an addition to Mount St. Mary's Hospital, Ferry Ave. and Sixth St. The estimated cost exceeds $50,000.

Pearl River, N. Y.—The taxpayers have authorized the school trustees to secure plans for a new school building to cost about $50,000.

Stanford, N. Y.—It is reported that the Irish Christian Brothers' Academy in 124th St. will expend $200,000 on the erection of buildings in the town of Stanford, Dutchess County, N. Y. Land was presented to the school by Recorder Goff, Charles S. Campbell and Francis W. Pollock ,of New York.

Yonkers, N. Y.—New York architects are preparing plans for a stone and brick synagogue for the Congregation Staff of Aaron, to stand on Hamilton Ave. between Morris and Post Sts., and to cost about $40,000. Rev. Samuel J. Levinson is Rabbi and E. J. Goodhart, Philipsburgh Bldg., also is interested.

Newark, N. J.—The Board of School Estimate has voted an appropriation of $300,000 to the Board of Education. The money will be used for the construction of a normal and training school to cost $275,000, and for the enlargement of the Cleveland School at 18th Ave. and Hunterdon St.

✚Erie, Pa.—The HENRY SHENK CO., Erie, has been awarded a contract for the construction of an 8-story hotel to be built at Erie, by the Erie Hotel Co.

Hazelton, Pa.—Bids will be received until Aug. 15 by the City Council for constructing a city hall. Probable cost, $75,000.

✚Baltimore, Md.—The First Church of Christ, Scientist, awarded contract to D. M. ANDREWS CO., Mt. Vernon and 27th Sts., for erection of stone work on edifice to be erected on University Parkway; plans by architects Chas. E. Cassell & Son, Law Bldg.

✚Washington, D. C.—The contract has been awarded to GEORGE F. PAYNE & CO., 401 South Juniper St., Philadelphia, Pa., for construction of a 4-story limestone residence on F and 18th Sts. Plans by Horace Trumbauer, Land Title Bldg., Philadelphia, Pa.

Washington, D. C.—Bids will be received until Sept. 15 by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for the construction of the U. S. post office at Washington, D. C. Drawings and specification may be had at this office or at the office of the architects D. H. Burnham & Co., Ry. Exchange Bldg., Chicago, Ill.

Portsmouth, Va.—It is reported that the Norfolk & Western Ry. will erect a passenger station at Portsmouth, Va., at an estimated cost of $125,000. C. S. Churchill, Roanoke, Va., is Ch. Engr.

Wheeling, W. Va.—Bids will be received about Aug. 15 by R. B. Naylor, Secy. Bd. of Trade for the Market and Auditorium, cost about $250,000.

Wilmington, N. C.—Bids will be received by the Board of Directors of the Atlantic Trust & Banking Co., until Aug. 15 for constructing an 8-story fireproof bank and office building on Front St.

Albany, Ga.—The Albany Hotel Co., Albany, will receive bids until Sept. 5 for constructing a 6-story, reinforced concrete and brick hotel building. Plans by Todd & Benson, Charleston, S. C.

Savannah, Ga.—Bids will be received until Aug. 15 for constructing a 10-story, granite, limestone, brick and terra cotta hotel on Congress St. Plans were prepared by W. L. Stoddard, 30 West 38th St., New York City.

Tampa, Fla.—G. Ferleta will erect at Nebraska Ave. and Twiggs St. a $70,000 building.

***Ensley, Ala.**—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Sept. 7 for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures) of the U. S. post-office at Ensley, Ala. Drawings and specification may be obtained from the Custodian of site at Ensley, Ala.

✚Montgomery, Ala.—The contract has been awarded to RATCLIFF & PRULL, Birmingham, for the construction of the Pythian Temple here. The contract price is $57,400.

Canton, Ohio.—Bids will be received by F. L. Allen, Secy., at the Court House, Canton, until Aug. 11, for the proposed Joint Tuberculosis Hospital to be erected near Springfield, Lake Summit County. The estimated cost is $100,000. Plans were prepared by C. C. & A. L. Thayer, New Castle, Pa.

Belmont, Ohio.—The Board of Education will receive bids until Aug. 10 for constructing a 2-story brick addition to school building.

✚Canton, Ohio.—The contract for the erection of the new buildings to be built by the Standard Oil Co. at Canton has been awarded to J. J. WALSH at $60,000.

✚Columbus, Ohio.—The contract for the erection of a 5-story reinforced-concrete business block on South Fourth St. for J. J. Stoddart has been awarded to PATRICK SHANAHAN at $55,000.

Kenton, Ohio.—A bill providing for an appropriation of $100,000 to erect a post-office building at Kenton, Ohio, has been introduced in the National Congress.

Lorain, Ohio.—Bids were received for the construction of a central high school building as follows: John Kaiser & Bro., $53,790; A. J. Laton, $54,649; N. Strauder, $54,440; Glich & Burket, $54,985. The Dawson Construction Co., $54,231.

Marysville, Ohio.—Plans are being prepared by Arch. Rickett for a K. of P. hall to be erected by the lodges at this place. The structure will be two stories high.

Hammond, Ind.—Benjamin Hays is receiving bids until Aug. 15 for the construction of a 4-story business block.

Indianapolis, Ind.—The School Board will receive bids until 7 p. m., Aug. 8, for the erection of a 6-room addition to School No. 59. John E. Cleland, Bus. Dir.

Laporte, Ind.—Bids will be received by Trustees of Lincoln Township, Laporte County, for the construction of a new school building.

Dugger, Ind.—Plans are being made on which bids will be received for the erection and equipment of a modern hospital for miners. G. W. Lakey is interested.

Hammond, Ind.—A. S. Kent, Ch. Engr. of the Monon Ry., has located the site for the construction of a passenger station. It is understood that bids will be solicited soon.

Hammond, Ind.—Benjamin F. Hays has ordered plans for the erection of a 3-story building to be erected on site adjoining the Superior Court building. Estimated cost, $50,000. Bids will be in order soon.

Indianapolis, Ind.—The Commissioners of Marion County will receive bids until 10 a. m., Sept. 2, for the remodeling of the Marion County courthouse. Albert Sahm, County Auditor.

Peru, Ind.—Dr. E. M. Bloomfield has ordered plans on which he will ask for bids for the erection of a residence in South Peru. When the building is completed it will be one of the finest residence buildings in the state.

Princeton, Ind.—Bids were received as follows on Aug. 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Princeton, Ind.: Barnes Bros., Logansport, Ind., $60,300; August Ohm, Terre Haute, Ind., $49,750; Holladay & Crouse, Greensboro, N. C., $64,435; Christ Kanzler & Son, Evansville, Ind., $52,000.

Rockport, Ind.—Bids will be received by the I. O. O. F. until Aug. 15 for erecting a 2-story, 66 × 100 ft. lodge building. Plans by Clifford, Shopbell & Co., Archs., Evansville.

South Bend, Ind.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a high school. Bids will be received until Sept. 1.

Chicago, Ill.—Press reports state that a freight terminal will be erected here by the Minneapolis, St. Paul & Sault Ste. Marie Ry. The proposed terminal will be located on Twelfth St., between Canal and Clinton St. The cost will be in the neighborhood of $6,000,000. W. L. Martin, Minneapolis, Minn., is Vice-Pres. and Traf. Mgr.

✚Moline, Ill.—The contract has been awarded to E. S. LEAK & COX, Chicago, for constructing a depot in Moline for the Chicago, Burlington & Quincy R. R. Co. The cost is $60,000.

Pontiac, Ill.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Sept. 8 for the construction (including plumbing, gas piping, heating apparatus and electric conduits and wiring, and interior lighting fixtures) of the U. S. post-office at Pontiac, Ill. Drawings and specifications may be had from the Custodian of site at Pontiac, Ill., or at the office of the Superv. Arch.

Milwaukee, Wis.—The Merchants & Manufacturers Realty Co., capital stock $50,000, has been organized by stockholders in the Merchants & Manufacturers Bank and will erect a banking house on West Water St., between Grand Ave. and Wells St. Plans are being prepared by Ferneks & Cramer, Archs., for a building to be 85 × 135 ft. in size, with foundations for ten stories and initial construction of three stories. Bids will be received after Aug. 10. L. M. Alexander is Pres.

✚The Northwestern Mutual Life Insurance Co. has awarded the contract for excavating for its proposed new $2,000,000 home office building at Wisconsin, Van Buren, Cass and Mason Sts., to FROEMMING BROS., Milwaukee. George H. Benzenberg is Constructing Engr.

The Board of School Directors has selected a site of one-half block on Grant St., between 25th and 26th Sts. for the proposed 11th Dist. School No. 3. Plans are being prepared by D. C. Otteson, Arch. School Board. Frank M. Harbach is Secy.

Sheboygan, Wis.—The Board of Education has awarded the contract for the construction of the new Washington school to RUDOLPH JAHN, Sheboygan, at $44,16-. H. C. Koch & Sons, Wells Bldg., Milwaukee, Wis., are Archs.

Des Moines, Iowa.—Preliminary sketches have been completed by H. E. Teachout, for a 5-story building at East Fifth and Locust Sts. The structure will be constructed of reinforced concrete with brick finish and will cost $75,000.

✚The contract has been awarded to J. C. MARDIS CO., at $163,575 for the construction of the proposed Masonic Temple here. Work will be completed within a year.

✚The JAMES MAINE & SONS CO. has been awarded a $50,000 contract for the tearing down of Foster's opera house in Des Moines and the erection of a modern hotel in its place. The hotel will be of brick, three stories in height, 66 × 132 ft. It is being built by the Foster's Realty Co., owners of the property, and is to be completed by Dec. 1.

✚Mason City, Iowa.—The contract for the general construction of the clubhouse for the Knights of Columbus, was awarded July 29 to C. E. ATKINSON, of Webster City, Iowa. E. J. Donohue, 601 Gilfillan Block, St. Paul, Minn., is Arch. Cost $40,000.

Milford, Iowa.—Bids will be received by J. F. May until Aug. 15 for the construction of a brick store building. Plans were prepared by W. W. Beach, Sioux City.

Duluth, Minn.—F. G. German, Arch., is receiving bids for the construction of the Bethel to be built on Mesabe Ave. and First St. The probable cost is $50,000.

Fort Snelling, Minn.—The War Department has informed F. C. Stevens that it will expend $125,000 on the construction of buildings at Fort Snelling, Minn. The buildings to be erected are administration building, two sets of officers quarters, drill hall, assembly hall and library. Capt. D. W. Arnold is Constr. Q. M.

Sauk Rapids, Minn.—Bids will be received by J. A. Senn, Clk. Bd. of Educ., until Aug. 10 for constructing a brick school. Tremont D. Orff, Minneapolis, is Arch.

Great Bend, Kan.—Bids were received as follows on Aug. 2, by the Superv. Arch., Treasury, Washington, for the construction of a U. S. post-office at Great Bend, Kans.: Interstate Construction Co., Saginaw, Mich., (a) $58,900; (b) same. Harman Bros., Williamsport, Pa., (a) $56,550; (b) $58,900. Dieter & Wenzel Construction Co., Wichita, Kans., (a) $57,913; (b) $59,990. Latimer & Benning, Kansas City, Mo., (a) $54,840.

Omaha, Neb.—Plans are being prepared for Judge James Neville for a 4-story building at 16th and Dodge Sts.

Plana, S. Dak.—Bids will be received Aug. 17 by E. F. Jones, Bath, for constructing a brick veneered school. Plans were prepared by George F. Foster, Aberdeen.

Kansas City, Mo.—Bids will be received by the Board of Public Works until Aug. 14 for constructing a building for the isolation department of the General Hospital.

Hot Springs, Ark.—Bids will be received by the Secretary of the Interior, Washington, D. C., until Sept. 15 for constructing the Waverly high school, in the High School Dist., Waverly. Plans were prepared by William T. J. Towner, Arch., 320 Fifth Ave., New York City.

Newport, Ark.—Plans have been prepared by Arch. George R. Mann, for the construction of a school building. The structure will be two stories, of pressed brick, containing ten rooms and an auditorium.

Little Rock, Ark.—Bids will be received by J. A. Ginvechio, Secy. Bldg. Com., B. P. O. Elks Lodge, until Aug. 15 for erecting a club building.

Sulphur Springs, Tex.—Bids were received as follows on Aug. 4 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Sulphur Springs, Tex.: (a) limestone; (b) sandstone: J. F. McKnight, Hallettsville, Tex., (a) $43,410; Thames & Weber, Beaumont, Tex., (a) $47,204, (b) same; Dieter & Wenzel, Wichita, Kan. (a) $44,281, (b) $44,700; George Hinchliff Co., Chicago, (a) $49,000; Newport Contracting & Engineering Co., Newport News, Va., (a) $48,145, (b) $49,-145; Interstate Construction Co., Saginaw, Mich., (a) $46,850, (b) same.

Henefer, Utah.—Bids will be received by the Board of Trustees until Aug. 12 for constructing a school. Plans were prepared by Watkins & Kent, 416-18 Vermont Bldg., Salt Lake City.

✚Boise, Idaho.—The contract has been awarded, it is reported, to JAMES STEWART & CO., Salt Lake City, Utah, at $472,500 for the construction of the dome, main wing and interior of the capital.

✚Las Vegas, Nev.—A. J. CRAWFORD, 478 N Belmont Ave., has contract to erect a 65-room hotel of cement blocks for the Salt Lake R. R. at Las Vegas, Nev. Cost, $40,000.

Auburn, Wash.—W. L. Darling, Ch. Engr. of the Northern Pacific Ry. Co., has announced that a number of terminal buildings will be constructed by the road at Auburn, Wash. Shops, roundhouses and a foundry are among the number. Bids are being taken now.

✚Spokane, Wash.—The contract has been awarded to H. J. SKINNER, Spokane, for the construction of a building for the Pacific Telephone & Telegraph Co. The building will cost $98,000.

Portland, Ore.—Plans have been approved for the construction of a class "A," 8-story, fireproof apartment building to be constructed in the King's Hill district by a syndicate of Portland citizens. The probable cost is $300,000.

A permit has been issued to Cramer & Fries to construct a 5-story fireproof building at Twelfth and Washington Sts. The estimated cost is $110,000.

✚A combined theatre and office building will be erected at West Park and Alder St. The cost will be about $100,-000. The building will occupy ground space 100 × 100 ft. The part of the building to be used for the theatre will contain three stories and will have a frontage of 65 ft. on Alder St. The remainder of the building will be two stories high and will have a frontage of 100 ft. on Alder St., and 35 ft. on West Park St. The building is being constructed for the People's Amusement Co. It was designed by the Newcomb Engineering Co. The contract is held by the J. F. WINDELAND CONTRACTING CO.

Fullerton, Cal.—Plans are being prepared by Norman F. Marsh, Broadway Central Bldg., for a group of polytechnic high school building. There will be a group of twelve buildings, to be classic in design, one-story, and constructed of brick and hollow tile, and plastered on the exterior. Six of the buildings will be 60 ft. square. A separate building will house the central power plant. The estimated cost of the work is $130,000.

Los Angeles, Cal.—Austin & Pennell, Archs., Wright & Callender Bldg., have been retained to prepare plans for the erection of a group of school buildings and the remodeling of various present structures, at an expenditure of $200,000. The construction will be of steel, brick and concrete.

✚Los Angeles, Cal.—The contract has been awarded to the F. O. ENGSTROM CO., Fifth and Seaton Sts., for the construction of a concrete warehouse for Haas Building Co., Second and Alameda Sts. The cost is $137,000.

San Francisco, Cal.—Plans are being prepared by Eugene Freeman, Kohl Bldg., for the construction of a $100,000 6-story brick and steel apartment house on California St.

Los Angeles, Cal.—Parkinson & Bergstrom, Archs., Security Bldg., have prepared plans for a 4-story concrete commercial garage to be erected on South Hope St., for E. C. Anthony at a cost of $70,000, to be 70 × 157 ft.

Los Angeles, Cal.—Press reports state that plans are being prepared for a 5-story, class B apartment house to be erected at Lake and Sixth Sts., at an estimated cost of $140,000. J. W. Chalmers is preparing plans. Alonzo Lee Hill, 984 Menlo Ave., is the owner. The building will contain 200 rooms.

✚Oakland, Cal.—The Golden West Brewing Co., of Oakland, Cal., has let a contract to the CONTINENTAL FIREPROOFING CO., of San Francisco, for the concrete and fireproofing of a group of five buildings, consisting of stock house, brewhouse, steam beer house, engine house and cooperage shop.

Placerville, Cal.—Bids will be received by T. C. Atwood, County Clk., until 2 p. m., Aug. 15, for construction of a county court house and jail in accordance with plans at the office of said clerk, also with Archs. Duff & Diggs, Sacramento. All bids must be submitted on blank forms furnished by the clerk.

San Diego, Cal.—Mr. [illegible] B. Spreckles and R. C. Gillis will erect a public market building here to cost $80,000, to be one-story high [illegible] contain 80 stores.

Venice, Cal.—Plans are being prepared by Norman F. Marsh, Broadway Central Bldg., for the construction of a group of high school polytechnic buildings to be erected at Venice at an estimated cost of $200,000.

Visalia, Cal.—[illegible] WHITT & SHIELDS, of Hanford, have been awarded the general contract to erect a 2-story pressed brick building on West Main St., for the Mt. Whitney Power & Electric Co. [illegible] cost, $30,000.

✚Montreal, Que.—The contract for the Charlton Hotel, estimated cost, $1,-000,000, has been awarded to the GEORGE A. FULLER Co., of Boston. It will be eight stories, of limestone, brick and terra cotta.

Ottawa, Ont.—Bids will be received until Aug. 21 by P. E. Ryan, Secy. National Transcontinental Ry. Commissioners, for the erection of trainmen's houses at the following points: District "A"—Napadogan and Edmundston, in the Province of New Brunswick; District "B"—Laurier, Ste. Foye and Fitzpatrick, in the Province of Quebec; District "D"—Cochrane, in the Province of Ontario; District "F"—Graham and Redditt, in the Province of Ontario and Trasncona, in the Province of Manitoba. Plans and specifications may be seen and full information obtained at the office of Gordon Grant, Ch. Engr., Ottawa, Ont.

Uxbridge, Ont.—Bids will be received until Aug. 21 by R. C. Desrochers, Secy. Public Wks., Dept. Ottawa, for the erection of a public building. Plans, specifications, etc., on application to "F," Toronto, or post-office, Uxbridge.

Quebec, Ont. — Bids will re received until Aug. 31 by P. E. Ryan, Sec. National Transcontinental Ry. Commissioners, Ottawa, Ont., for the construction and erection of a terminal station at Quebec. Plans, specifications, etc., on application to Gordon Grant, Ch. Engr., Ottawa, or A. E. Doucett, Dist. Engr. Quebec.

Calgary, Alta.—Bert. Stringer has prepared plans for his proposed 10-story office building on Eighth Ave.

Winnipeg, Man.—Bids will shortly be called for the erection of the 12-story building for the Union Trust Co. on Main St. J. D. Atcheson is Arch. and W. J. McWhinney, Toronto, is Gen. Mgr.

Truro, N. S.—Bids will be received until Friday, Aug. 25, by L. K. Jones, Secy. Dept. Rys. & Canals, Ottawa, for the construction of a stone passenger station at Truro. Plans, specifications, etc., on application to Ch. Engr. Intercolonial Ry., Moncton, N. B.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

Cornish, Me.—The construction of a water system is contemplated here, involving a standpipe with a capacity of 200,000 gallons, 500 hydrants and several miles of mains.

Brandon, Vt.—Bids for constructing about 2,700 ft. of 2 to 8-in. water pipe line in Brandon, will be received by Fire District No. 1 until 7 p. m., Aug. 15, at the Brandon National Bank, Brandon. Plans and specifications may be seen at the office of B. W. Howland, Brandon or at the office of A. C. Grover, C. E., Rutland, Vt.

Boston, Mass.—Bids will be received by the Metropolitan Water and Sewerage Board, Boston, until Aug. 21 for laying 3,000 ft. of 20-in. force main in Hyde Park and Boston. A pumping station is to be built later. Dexter Brackett is Ch. Engr, Bd.

Lynn, Mass.—Bids were received as follows on July 18 by the city for constructing a dam at Breed's Pond: E. F. Dwelley, $40,649; Fletcher-Lahey Co., $99,049; Joseph Quigg Co., $86,033; Patrick McGovern, $77,206; H. P. Cummings Construction Co., $69,818; Coughlan & Sheils Co., $67,796; M. McDonough, $64,108; Shawmut Construction Co., $63,903; D. J. Sheehan Co., $61,012; Coleman Bros., $58,377; J. E. Manning, $58,144.

Shelburne Falls, Mass.—Bids will probably be received about Aug. 15 for the construction of a gravity water system.

✚Taunton, Mass.—The Board of Water Commissioners has awarded the contract for about 250 tons of 6, 8 and 12-in. c.-i. pipe to R. D. WOOD & CO., of Philadelphia, Pa., at $22.05 per net ton f. o. b. Taunton.

***Athol, Mass.**—Bids will be received by the Board of Water Commissioners until 2 p. m., Aug. 22, for hauling and laying about 9,000 ft. of 12-in. c.-i. water pipe. Specifications may be obtained upon application to the Board. H. L. Hapgood is Chn. James L. Tighe is Engr.

Hartford, Conn.—The State Legislature, on July 26, passed the bill granting the Hartford Water Commissioners permission to procure a water supply in the Nepaug Section.

Cornwall, N. Y.—The village has authorized C. L. Waring, Counsel, to condemn 25 acres of land for the construction of a new reservoir.

Irvington, N. Y.—Bids will be received by the Board of Water Commissioners until Aug. 15, for furnishing and laying about 12,000 ft. of 12-in. c.-i. water pipe. James G. Orton is Clk.

Conway, Pa.—Bids will be received until Aug. 15 by the town for the construction of the water-works plant. Estimated cost, $20,000. James P. Leaf is Engr.

Glen Echo, Md.—The city is considering issuing bonds for the installation of a water-works system.

Washington, D. C.—The Commissioners of the District of Columbia have ordered the laying of the following water mains: 190 ft. 4-in. in alley of square 2604; 250 ft. 8-in. in E St. N. E.; 415 ft. 8-in. in Woodley Road N. W., and 170 ft. 8-in. in 27th Place N. W.

+The contract for furnishing 193 tons of c.-i. water pipe and specials has been awarded to the LYNCHBURG FOUNDRY CO., of Lynchburg, Va.

+Christiansburg, Va.—The city has awarded the contract to W. R. REYNOLDS, Chicago, Ill., for constructing the water-works system, at about $34,000.

Charlotte, N. C.—The Water Board has engaged Gilbert C. White, Consult. Engr., Durham, N. C., as engineer for the completion of the water-works extension to the Catawba River. Bonds for $350,000 have been voted for the work.

+Aiken, S. C.—We are officially advised that the Public Works Department has awarded the contract to GUILD & CO. of Chattanooga, Tenn., for laying about 6¼ miles of 14-in. c. i. water pipe and supplying various materials, at $13,098. Bids were opened on July 31.

Honea Path, S. C.—Bids will probably be received about Sept. 1 by John F. Monroe, Chn. Bd. Pub. Wks., for the construction of water-works and an electric light plant. Estimated cost, $37,000. T. W. Cothran is Engr., Greenwood, S. C.

+*Americus, Ga.—Bids were opened on Aug. 1 by the Mayor and City Council for the construction of a reinforced concrete reservoir. The contract, we are officially advised, has been awarded to A. J. WARDREP, at $4,782.

Augusta, Ga.—The city has decided to spend within the next two years $150,000 for water-works improvements. Nisbet Wingfield is Comr. Pub. Wks.

Valdosta, Ga.—The Council is considering making improvements to the water-works system.

South Jacksonville, Fla.—Bids will be received by the Board of Bond Trustees until 4 p. m., Aug. 24, for furnishing about five miles of 8, 6 and 4-in. c.-i. pipe and specials, hydrants and valves, drilling a 12-in. well, furnishing tower and tank, two boilers, a feed-water heater, pumps, generator, exciter and switchboard, etc.; simple valve engine; laying c.-i. pipe; constructing a reservoir, tower foundations, installing machinery, furnishing and installing electric line work, and constructing a power house. Specifications may be had from and plans seen at the office of William Lyon, Consult. Engr., 305 Duval Bldg., Jacksonville, Fla.

Passagrille, Fla.—The city is considering the installation of a water-works system.

Fayette, Ala.—The city has voted to issue $22,000 of bonds for the construction of water-works and a sewer system.

Jackson, Ala.—The city has voted $15,000 of bonds for the installation of water-works, the city to furnish the standpipe, mains and fire plugs and Bigbee Ice & Development Co. to furnish water and pumping power.

New Orleans, La.—Bids will be received until Aug. 14 by the Sewerage and Water Board, F. S. Shields, Secy., for brass goods, c.-i. service boxes, meters, meter boxes, and hydrants and valves. George G. Earl is Gen. Supt.

Bremen, Ohio.—Bids will be received by C. E. Thompson, City Clk., until Aug. 15, for constructing a water-works system. Estimated cost, $25,000. E. G. Bradbury, of Columbus, Ohio, is Engr.

Cincinnati, Ohio.—The Director of Public Service on July 28 rejected bids for laying water mains to connect with Mount Washington under the Little Miami River at Union Bridge. New bids will be asked.

Bids will be received by the Director of Public Service until noon, Aug. 14, for grading of grounds, etc., building of foundations, etc., dismantling, hauling and re-erection of tanks for the Western Hills Service of the Water Distributing System of the city. Plans, specifications and blank proposals can be obtained at the office of the General Superintendent of Water-Works.

Payne, Ohio.—The town has voted in favor of issuing bonds to install a water-works system and buy the electric light plant. The light plant will cost $9,700 and the water plant $17,000.

Youngstown, Ohio.—The city is preparing to construct a large storage reservoir in the vicinity of Dry Creek.

Jackson, Ohio.—The Jackson Water Supply Co., of Jackson, has been incorporated with a capital of $150,000, to build and operate a water-works system here. The incorporators are: J. M. McGillvray, James McVicker, Emmett Dungan, D. H. Armstrong and Ellis McClure.

+Nottingham, Ohio.—Bids were received on Aug. 4 by J. C. Steinnicke, Village Clk., for water mains in Kirkwood St., from Lamb Ave. to Cross St.; South Depot St., from Dille Road to Union St.; Cross St., from Poplar St. to Kirkwood St.; Stevens Ave., from Cross St. to Dille Road; North Depot St., from Dille Road to West End, and Leonard Ave., from Sackett Ave. to Olive St. We are officially advised that contracts have been awarded for this work to GOULD & MAYBACK, of Cleves, Ohio, and the OHIO ENGINEERING CO., of Elyria, Ohio. J. B. Davis & Sons are Engrs., The Arcade, Cleveland, Ohio.

Columbus, Ind.—The City Council is planning to construct a new water-works plant and mechanical filtration plant. Estimated cost, $75,000.

+*Flint, Mich.—The Common Council has awarded the contract to the PITTSBURG FILTER MFG. CO., Pittsburg, Pa., for the construction of a filter plant and pumping station and appurtenances at the water-works, at $138,895. W. G. Clark is Consult. Engr., The Spitzer, Toledo, Ohio. Bids were opened on July 20 by the Board of Water Commissioners. List of bidders noted on Aug. 3.

Reed City, Mich.—Bids will be received by the Water Board until Aug. 21 for constructing a 12-in. suction pipe and inlet, 65-ft. radial brick or concrete chimney with breeching and steam water pump.

Lostant, Ill.—Bids will be received by C. A. Whitney, Pres. Bd. Trustees, until 5 p. m., Aug. 15, for the construction of a steel water-works tower and tank of 50,000 gallons capacity, about 90 ft. in height to the balcony, and for furnishing and laying pipe, etc. Hugh M. Price is Engr., 1207 Hartford Bldg., Chicago, Ill.

Tremont, Ill.—Bids will be received until 3 p. m., Aug. 17, for the construction of a system of water-works. Mellnish & Broyhill are Engrs., Bloomington, Ill.

Chicago, Ill.—Bids will be received by L. E. McGann, Comr. Pub. Wks., until Aug. 12 for delivering and erecting in place the structural steel and iron work for a vault for discharge mains at the Roseland pumping station.

Platteville, Wis.—Bids will be received by J. E. Kennedy until 8 p. m., Aug. 25, for furnishing and erecting a motor-driven deep-well turbine pump of 500 gallons per min. capacity, well 16-in. in diameter, 1,000 ft. deep. For specifications apply to the City Clerk. W. G. Kirchoffer is Engr., Madison, Wis.

+Rhinelander, Wis.—The Common Council has awarded the contract for equipment for the municipal water-works pumping station to the LAIDLAW-DUNN-GORDON CO., at $10,670. The equipment consists of two horizontal duplex cross-compound non-condensing crank-and-flywheel type Meyer-gear pumping engines and one 6-in. horizontal 2-stage Worthington centrifugal pump, turbine type.

Menasha, Wis.—The city has decided to install a new engine in the municipal water and light plant. Estimated cost, $18,000.

+Cedar Falls, Iowa.—The City Council has awarded the contract to R. L. SCRIBNER, of Cedar Falls, for the construction of 3,650 lin. ft. of water main extension.

Holstein, Iowa.—Bids will be received until Aug. 16 by the city for the extension of the water mains.

Council Bluffs, Iowa.—Bids will soon be asked by the city for pumping machinery and motors in connection with the water-works system. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

Fort Dodge, Iowa.—The Oscar Claussen Engineering Co., National German American Bank Bldg., St. Paul, Minn., has submitted a report on the cost of development of a water power on the Des Moines River to the City Council. Estimated cost, $69,000.

Luther, Iowa.—Bids will be received until 3 p. m., Aug. 14, for an 80-ft. steel tower, and a 25,000-gallon tank, and 6 and 4-in. water mains. Estimated cost, $5,400. The Des Moines Bridge & Iron Co. is Designing Engr., Des Moines, Iowa

Prairiesburg, Iowa.—J. E. Pickens, of Kankakee, Ill., has been engaged by the City Council to prepare plans, specifications and estimates for the installation of a water-works system. Bids will soon be asked.

Crookston, Minn.—The Crookston Water-Works, Power & Light Co. will spend $15,000 in improving its plant, including the installation of a new turbine wheel.

Peterson, Minn.—The Village Council has decided to install a water-works system.

Shakopee, Minn.—H. F. Hecker, City Recdr., will receive bids until 8 p. m., Aug. 17, for 2,065 ft. of 8-in. extension of the water mains, four hydrants and two 8-in. valves; also for the erection of a standpipe, 20 ft. in diameter and 75 ft. high, with concrete foundation. L. P. Wolff is Engr., St. Paul, Minn.

Burden, Kan.—Rollins & Westover, Consult. Engrs., Kansas City, Mo., are preparing plans for the installation of a water-works system here. Estimated cost, about $20,000.

Englewood, Kan.—The J. S. Worley Co., Consult. Engrs., Reliance Bldg., Kansas City, Mo., are preparing plans and specifications for the construction of a water and light plant here. Estimated cost, $20,000.

Tecumseh, Neb.—The citizens have voted to issue bonds for $15,000 to extend the water system and $7,000 for the installation of a sewerage system.

Whitewood, S. Dak.—An irrigation enterprise, entailing a cost of from $50,000 to $75,000 and embracing upwards of 3,000 acres of the semi-arid pastures surrounding this place, has been floated by local men under the direction of Samuel Lea, State Engr. The plan contemplates the erection of a conversion dam near here, the laying of conduits, and a storage reservoir and a clarifier with a patent process. Enough money has been subscribed for the experiments necessary and the preliminary stages of the work. The plan includes the taking of water from Whitewood Creek which carries away the slimes from the milling plants of Deadwood and Lead, and after the clarifying process, using it for irrigating purposes in the territory surrounding Whitewood. The conversion dam will be placed across Whitewood Creek at a point below the town, and the clarifier a little east of this, near which will be placed the storage reservoir. The clarifier is a circular tank of solid, reinforced concrete 400 ft. in diameter, and in ordinary weather the inflow will be 40 cu. ft. per min. The storage reservoir, for which surveys have been made, will have a capacity of 750,000 cu. ft. of water and will be 600 ft. long and 100 ft. wide at its highest point. It will be built up from bedrock, which will give it a depth of 160 ft. Two ditches to convey the waters are planned, one north from the reservoir along the west side of the Hills and east of the town, to irrigate all the lands between the ditch and the town, a fall developing 80 HP. The west canal will flow along the foothills west of the creek and can be extended further into the valley by the use of siphons. F. M. Harshberger of this city is at the head of the company organized to carry out the project.

+Onida, S. Dak.—The contract has been awarded, we are officially advised, to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, for the installation of water-works here.

Plankinton, S. Dak.—Bids will be received until Aug. 15 by the State of Charities and Correction, Parker, S. Dak., for furnishing the material and drilling a well, between 200 and 300 ft. deep on the grounds of the State Training School at Plankinton. W. H. King is Secy.

***Minot, N. Dak.**—Bids will be received by L. J. Thompson, City Audr., until 7.30 p. m., Aug. 28, for the construction of 10,000 ft. of water main extensions and for the construction of a sewage pumping station. Estimated cost of above work, $20,000. Information relating to the work can be obtained from the City Engineer.

Bismarck, N. Dak.—F. A. Behounek, Secy., Bd. Trustee, Public Property of the State, will receive bids until 2 p. m., Aug. 22, for the construction of a 50,000-gallon steel water tank and 60-ft. steel tower and 800 ft. of 6-in. c.-i. water main, etc.

+Cowley, Wyo.—The contract has been awarded to G. JEAGER, of Rich Hill, Mo., by the town for the construction of a water plant at $37,000. Schenk & Nowell are Consult. Engrs., Basin, Wyo.

Manhattan, Mont.—The city is considering the installation of a water-works system. Estimated cost, about $30,000.

Lamar, Mo.—Rollins & Westover, Consult. Engrs., Kansas City, Mo., are preparing plans for improvements to the water-works and electric light plant. Estimated cost, $75,000.

Mount Vernon, Mo.—Bids will be received until Aug. 22 by H. H. Jones, City Clk., for the erection of either a steel or cypress water tank. Plans and specifications are on file at the office of the City Clerk.

Shelbina, Mo.—Bids will be received until Aug. 23 by the city for pumping machinery, tower and tank, boilers, heater, engine, generators, filters, etc., in connection with the installation of the proposed water-works system. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

Clarksville, Ark.—Plans for a water system, electric light plant and a sewer system here are being prepared by R. L. Goodman. Two wells will furnish the water supply.

Henrietta, Tex.—The city has voted $18,000 of bonds for the construction of a dam across Little Wichita River for the water supply.

Ladonia, Tex.—The State has approved an issue of bonds by the city for $10,000 for the installation of a water-works system.

Fort Worth, Tex.—Bids will be received until 10 a. m., Aug. 15, by the City Commission for clearing the west fork reservoir site of trees and undergrowth, etc. W. J. Estes is City Secy.

Paducah, Tex.—The city is considering issuing $27,000 bonds for the installation of a water-works system.

+Alvin, Tex.—The Alvin Light & Power Co. has let the contract to LOVEGROVE & WYMAN, of Houston, Tex., for the installation of a complete water-works system here.

Greenville, Tex.—The $85,000 of bonds that were recently issued by the city for extending the water-works system have been approved by the Attorney General and the work will soon be started. Noted on Aug. 3.

***Muskogee, Okla.**—Bids will be received by the Mayor and City Council until 10 a. m., Sept. 5, for the construction of a 6,000,000-gallon water purifying and softening plant for the city. Bids will be received at the present time for the concrete basins only. Alexander Potter is Consult. Engr., 114 Liberty St., New York.

***Muskogee, Okla.**—Bids will be received by Charles Wheeler, Jr., City Clk., until 10 a. m., Aug. 15, for furnishing water meters. The following approximate quantity will be required: 50 1-in. meters, 100 ¾-in. meters, 2,000 ⅝-in. meters. Specification can be secured at the office of the Water Superintendent, or at the office of Alexander Potter, Consult. Engr., 114 Liberty St., New York. E. H. Fleming is Comr. Water, Sewer and Light.

+Boley, Okla.—The contract has been awarded to F. R. STONE, of Lima, Ohio, by the city, for the construction of a water-works system, at about $30,000. The Western Engineering Co., American National Bank Bldg., Oklahoma City, Okla., is Engr.

Braggs, Okla.—The citizens have voted in favor of issuing $16,000 of bonds for the installation of a water-works system. Winter & Dove are Engrs., First National Bank Bldg., Fort Smith, Ark.

Hollis, Okla.—The city has voted to issue $50,000 of bonds for the construction of a water-works system.

Oklahoma City, Okla.—The following bids were received by the City Commissioners on July 18, for the construction of a new concrete dam at the pumping station: Reinhart & Donovan, $19,398; Hunter & Hunter, $24,569; Swatek & Co., $15,647; John H. Broderick, $21,562; J. W. Smith & Son, $19,701, and A. O. Campbell, $18,220.

Boulder, Colo.—The City Council has authorized the issuance of $125,000 of bonds for the completion of the Albion Dam and constructing the new water-works at Silver Lake. Plans and specifications are being prepared. Fred Dungan is City Engr.

Hayden, Colo.—The town will install a municipal water-works system. Peter O'Brien of Denver, Colo., is preparing plans and estimates.

Monte Vista, Colo.—Bids will be received until Aug. 15 by O. S. Storrs, Pres. Soldiers' and Sailors' Home, Monte Vista, for erecting a steel tank and tower at the home.

Provo, Utah.—Bids were opened on July 20 by the Rock Canyon Irrigation Co., Provo, for the extension of the Rock Canyon Tunnel 200 ft. W. F. Olsen and Parley Peay were the lowest bidders, it is reported, at $10 per ft. for widening the 300-ft. tunnel now constructed and extending it an additional 200 ft with cement bottom.

Puyallup, Wash.—The Council has decided to construct a new concrete pumping station, including machinery and pumps, at Maplewood Springs.

Astoria, Ore.—Bids will be received by the Water Commissioner until 5 p. m., Aug. 14, for clearing and grubbing about 25 acres for a storage reservoir site on Bear Creek, and for the construction of a concrete reservoir dam. G. W. Lounsberry is Clk.

Livermore, Cal.—Bids will be received by J. P. Cook, Clk. Bd. of Supervisors, until 10 a. m., Aug. 14, for the construction of a water plant for watering County Road No. 818, from Altamont to County Road No. 1410.

Hemet, Cal.—Frank Lathrop, Consult. Engr., for the American Municipal Improvement Co., Higgins Bldg., Los Angeles, has submitted a report on the proposed municipal water system, providing for a plant and system with a daily capacity of 85,000 gallons, the supply to be derived from two 400-ft. wells, with pumping plant and elevated tank. Estimated cost, $53,465.

+Los Angeles, Cal.—The contract has been awarded to M. H. BROOKLINS, Union Trust Bldg., Los Angeles, for the construction of a reinforced concrete reservoir 50 x 100 x 8 ft. in the San Fernando Valley for George C. Peckham Co.

G. M. HUNTLEY has the contract for laying five miles of 8 and 10-in. reinforced concrete water pipe in connection with the same at $6,000. Geo. W. Harding, is Engr., Citizens National Bank Bldg., Los Angeles.

Bids were received as follows by the Board of Public Works for 20,000 ft. of iron pipe for the Aqueduct: California Hardware Co., Item (1) $6.48 per 100 ft.; Item (2) $6.48. H. B. Boynton, $8.82 and $6.48. Pacific Hardware & Steel Co., $8.82 and $6.48. Union Well Supply Co., Item (1) no bid; Item (2) $6.30. Water Works Supply Co., $8.82 and $6.48. Crane Co., $8.82 and $6.48.

Martinez, Cal.—The Union Water Co. has been incorporated and will construct a water-works system here. The directors are: W. T. Barnett, A. D. Plaw, B. W. Vincent, P. Kent and T. B. Madison.

San Francisco, Cal.—The lowest bid received on July 19 by the Board of Public Works for a 500,000-gallon steel tank to connect with the Twin Peaks reservoirs, was submitted, it is reported, by F. G. Roberts, of San Francisco, at $12,350.

Quebec, Que.—The city will soon ask for bids, it is reported, for water-works construction. Five miles of c.-i. pipe will be required, including a 40-in. main. Estimated cost, $700,000. W. D. Baillarge is City Engr.

***Montreal, Que.**—Bids will be received until noon. Oct. 3, by the Board of Commissioners for the construction of the filtration plant, Contract 3. For details see advertisement in this issue.

Windsor, Ont.—The citizens on July 24 voted to issue $50,000 of bonds for the construction of a new water-works intake and for the extension of water mains.

St. Thomas, Ont.—Bids will be received until Aug. 19, by M. H. Baker, City Engr., for furnishing and installing a 6,000,000-gallon centrifugal pump and steam-engine. Specifications may be obtained from the City Engineer.

+Edmonton, Alta.—The City Commissioners have awarded the contract to the MORAN CO., of Seattle, Wash., for a 6,000,000-gallon steam-driven centrifugal pump. Estimated cost, $18,000.

Mexico City, Mex.—An additional appropriation of $500,000 has been granted by the Mexican Government for a pipe line and distributing system to bring water from Xochimilco to this city.

SEWERAGE.

Springfield, Mass.—It is proposed to build a sewer estimated at $26,000 in Highland Terrace, in the northeastern part of Springfield. George N. Merrill, 292 Main St., is Engr.

Boston, Mass.—Bids will be received until Aug. 11 by the Public Works Department for constructing sewerage works in Rockaway St., Dorchester District, and in Hunnewell Ave., Brighton District. Louis K. Rourke is Comr. Pub. Wks.

Boston, Mass.—Bids will be received until Aug. 28 for building 940 ft. of a conduit of reinforced concrete, to be 17 × 14 ft. high, horseshoe section, walls 3 ft. thick with brick invert. A house sewer 3 × 4 ft. is to be built in one haunch. Louis K. Rourke is Comr. Pub. Wks.

Fitchburg, Mass.—Bids will be received by the Board of Sewage Disposal Commissioners, 352 Main St., until 3 p. m., Aug. 15, for the construction of Section 2 of the main intercepting sewer. Arthur H. Lowe is Chm., and David A. Hartwell is Ch. Engr.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Aug. 21, for constructing sewer in Park Terrace East, between 218th St. and 100 ft. south of 215th St.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Aug. 30, for constructing sewers, force main and substructures of the sewage pumping station, Section No. 1, and other work.

Depew, N. Y.—Bids will be received by the Board of Village Trustees until Aug. 14, for constructing approximately 9,724 ft. of 6 to 8-in. tile sewers, at an estimated cost of $10,000. John C. Glade is Vil. Clk.

New Rochelle, N. Y.—Bids will be received by the Board of Public Works, Richard Lathers, Jr., Chn., until Aug. 10, for the construction of sewers in North Ave., from Eastchester Road to Broadview, and for a concrete culvert from the south side of Main St. to the north side of Cliff St., and across Beechwood Ave. to the land of the New York, New Haven & Hartford R. R. Co.

Skillman, N. J.—Bids will be received by D. F. Weeks, M. D., Supt. New Jersey State Village for Epileptics, until Aug. 21, for constructing about two miles of 5 to 12-in. vitrified pipe sewers, Y branches, etc., and a sewage disposal works. Clyde Potts, 30 Church St., New York, N. Y., is Engr.

Summit, N. J.—We are officially advised that bids were received on Aug. 1 by J. Edward Rowe, City Clk., for constructing Sections 1 and 2 of the West Summit vitrified pipe sewers, as follows: (a) Section 1; (b) Section 2: J. J. Fusco, 621 Broad St., Newark, N. J., (a) $41,431, (b) $8,739; M. Lopreto, East Orange, N. J., (a) $27,718, (b) $6,810; R. Klocknor, Trenton, N. J., (a) $70,938, (b) $7,157; M. Carafano, Summit, N. J., (b) $6,228; Zizzo Construction Co., 122 Badger Ave., Newark, (b) $5,753; C. Mottolo, 434 North High St., Mt. Vernon, N. Y., (a) $32,652, (b) $10,516. The bid of Michael Loprete was held over until the next meeting of the Council, and all others were rejected. Noted July 27.

Harrisburg, Pa.—Bids for the construction of sewers in Brookwood, 16th and other streets in the Thirteenth Ward, have been received as follows: Central Construction & Supply Co., $9,645; Stucker Bros. Construction Co., $9,374; W. H. Lynch, $10,442; William H. Opperman, $10,137; Henry Opperman, $9,629. W. W. Caldwell is City Highway Comr.

*Bids for constructing the river front marginal sewer were received on July 31, by the Board of Public Works, as follows: William H. Opperman & Co., Harrisburg, $77,841; Stucker Bros. Construction Co., Harrisburg, $95,471; United Ice & Coal Co., Harrisburg, $96,276; Ryan & Ryan, Philadelphia, $101,651; William S. Miller, Harrisburg, $104,397; W. H. & C. F. Thompson, Baltimore, $111,965; J. E. Bunting, New York, $156,550; Forschner & Sexton, New York, $126,283; James Ferry & Sons, Pittsburg, $141,705; S. Pearson & Son, New York, $219,889. D. E. Tracy is Secy. of Bd. Noted July 13.

Harrisburg, Pa.—Permission has been granted to the Board of Public Works to construct an intercepting sewer along the river front, estimated to cost $316,000. W. W. Caldwell is Supt. Sewerage.

+Ligonier, Pa.—We are officially advised that the contract for constructing a sewage disposal plant and a pumping station was awarded on Aug. 1 to RALSTON & MEYERS, Mt. Vernon, Ohio, at $13,900. Ira F. Brant is Secy., Boro. Council.

Philadelphia, Pa.—Bids will be received until Aug. 15, for constructing five main sewers and 53 branch sewers, estimated at $117,000 and $150,000, respectively. Charles Fromer is Design. Engr.

McKeesport, Pa.—Bids will be received by the Sewer Committee until 7.30 p. m., Aug. 10, for constructing 8, 10 and 15-in. terra cotta sanitary sewer on portions of various streets. C. E. Soles is City Contr.

+Williamsport, Pa.—A contract for constructing a sewer in the eastern part of the city has been awarded to G. W. ROCKWELL, Sunbury, Pa., at $22,563. Busch & Stewart, Williamsport, submitted a bid of $28,852.

Baltimore, Md.—We are officially advised that bids will soon be asked by the Sewerage Commission for approximately 60,000 ft. of lateral sanitary sewers, 3,000 ft. of 82-in. trunk sanitary sewer, and about 20,000 ft. of from 15 to 138-in. storm-water drains. The approximate cost of the three contracts is between $400,000 and $500,000. Calvin W. Hendrick is Ch. Engr.

+Baltimore, Md.—A contract for valve and piping work has been awarded to the B. F. SWEETEN CO., at $29,094.

+Norton, Va.—A contract has been awarded to JOHN JENKINS, Norton, for constructing 6½ miles of sewer at $21,322. Scarborough & Dotson, Norton, Va., are Engrs.

South Jacksonville, Fla.—Bids will be received by the Board of Bond Trustees, South Jacksonville, until 4 p. m., Aug. 24, for constructing a sanitary sewerage system, requiring about 3½ miles of pipe, 8 to 18 ins., manholes, flush tanks, etc. Specifications may be obtained from and plans and profiles seen at office of William W. Lyon, Consult. Engr., Duval Bldg., Jacksonville.

Ada, Ohio.—We are officially advised that bids for constructing the Ada Sewer Ditch, requiring 4,250 lin. ft. 48-in., 3,260 lin. ft. 30-in. and 900 lin. ft. of 18-in. brick sewers were received on July 31, as follows. Beers, Offcut Construction Co., Ft. Wayne, Ind., $28,410; Thomas F. Hurley, Marion, Ohio, $28,828; Wm. McDowell & Son, Bellefountaine, Ohio, $26,543; Van Meter Construction Co., Steubenville, Ohio, $26,470; HUONKER & WILLIAMS, Springfield, Ohio, $26,532 (awarded contract). James C. Poling, Kenton, Ohio, is Harden County Surv.

Columbus, Ohio.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until Aug. 15, for constructing the Milo main trunk sewer, requiring approximately 6,753 lin. ft. of 15 to 60-in. sewer and 29 manholes.

***Shreve, Ohio.**—Bids will be received by Clem Morgen, Vil. Clk., until Aug. 18, for constructing a sanitary sewer system and disposal plant.

Cleveland, Ohio.—Bids will be received by A. B. Lea, Dir. Pub. Ser., until noon, Aug. 16, for constructing sewers in various streets. Ira O. Hoffman is Secy.

Youngstown, Ohio.—Bids will be received by the Director of Public Service, until noon, Aug. 18, for constructing sewers on portion of Albert St. and West Ave. W. H. McMillan is Clk.

Richmond, Ind.—The city is considering the construction of two trunk sewers, on each side of the river bluff, and a disposal plant at some point on the river bottom. The sewers will carry away all the sewage from both the east and west side, which is now flowing into the river within the city limits. The cost of such an improvement would be between $300,000 and $400,000. Fred R. Charles is City. Engr.

Terre Haute, Ind.—Bids will be received by the Board of Public Works until Aug. 15, for constructing eleven miles of sewers in various streets. Estimated cost, $100,000. W. A. Thompson is Secy.; Donn M. Roberts is City Engr.

+Detroit, Mich.—A contract for constructing the section of the Fairview sewer between Conners Creek and the city limits, about 6,443 ft., has been awarded to JOHN MERCIER, Hammond Bldg., Detroit, at $14.60 per ft.

Marshfield, Wis.—Bids will be received by the Board Public Works until Aug. 16, for constructing a sanitary sewer in the north side of the city. C. S. Vedder is City Clk.

+Port Washington, Wis.—A contract has been awarded to WILLIAM MORAN & CO., Joliet, Ill., for sewer construction, to cost $25,000, at Port Washington.

Grand Rapids, Wis.—Bids will be received by the Board of Public Works until 9 a. m., Aug. 10, for constructing a 12-in. drain on Seventh St., between Saratoga and Wisconsin Sts. M. G. Gordon is City Clk. Plans, etc., are on file at the office of the City Engineer. W. E. Wheelan is Mayor.

Ft. Dodge, Iowa.—Bids will be received by J. L. Hanrahan, Audr., Webster County, until 11.30 a. m., Aug. 22, for the construction of the Webster-Greene-Boone Joint Drain No. 140-772. Estimated cost, $29,222. Plans, etc., are on file at the office of the County Auditor. C. H. Reynolds is Constr. Engr.

Rockwell City, Iowa.—Bids will be received by the Joint Board of Supervisors of Pocahontas and Calhoun Counties until 1 p. m., Aug. 22, for the construction of drain No. 40-79. Estimated cost, $39,986. Plans, etc., are on file at the office of J. A. Terry, Audr., Pocahontas County, and at the office of C. O. Dixon, Audr., Calhoun County. L. M. Rude and J. P. Moore are Engrs.

Mason City, Iowa.—The city is considering the construction of septic tanks and filter beds, etc., to cost about $40,000. Frederick Bass, Minneapolis, Minn., is Consult Engr.

Pella, Iowa.—We are officially advised that bids for constructing 1,410 lin. ft. of 12-in., 2,495 ft. of 10-in., and 10,124 ft. of 8-in. sewer, 11 flush tanks and 22 manholes, were received on Aug. 2, as follows: W. D. Yeager, Cedar Rapids, Iowa, $14,412; H. J. Cathroe, Omaha, Neb., $13,910; M. A. Camery, Harland, Iowa, $16,387; Dunnigan & Briggs, Shenadoah, Iowa, $15,200; Geo. M. King Construction Co., Des Moines, Iowa, $15,808; J. W. Turner Improvement Co., Des Moines, Ia., $17,911. A. C. Kuyper is City Clk. Noted July 27.

Brainerd, Minn.—Bids will be received by U. N. Roderick, City Clk., until 8 p. m., Aug. 14, for constructing Lateral Sewers A1, A2 and A3, in Sewer District No. 5.

+Wichita, Kan.—A contract has been awarded to JOHN STRIFFLER, at $10,029, for constructing Section A of the Douglas Ave. storm water sewer, from Main St. west to the Big Arkansas River.

Auburn, Neb.—Bids will be received by W. H. Bousfield, City Clk., until 6 p. m., Aug. 14, for the construction of 1,828 ft. of 8-in. sewer. Plans, etc., are on file at the office of Anderson & Hacker, Engrs.

Fort Pierre, S. Dak.—Bids will be received until Aug. 21 by M. A. McMillan, City Audr., for constructing about 4,922 ft. of 15, 12 and 8-in. sewer.

California, Mo.—We are officially advised that plans are being prepared by Burns & McDonnell, Engrs., Kansas City, Mo., for constructing a sanitary sewer system.

+Kansas City, Mo.—A contract for constructing a combined storm and sanitary sewer from 39th and Olive Sts. to Brush Creek, near Garfield Ave., has been awarded to WILLIAM C. MULLINS, at $92,187. The entire sewer will be of concrete.

St. Louis, Mo.—Bids will be received by the Board of Public Improvements until noon, Aug. 18, for reconstructing the Ferry St. sewer and constructing a branch sewer.

Shelbina, Mo.—Bids will be received by E. J. King, City Clk., until 3 p. m., Aug. 25, for constructing a system of sewers. Plans, etc., can be seen at the office of the City Clerk or may be obtained from Burns & McDonnell, Engrs., Scarritt Bldg., Kansas City, Mo. Jas. F. Allgaier is Mayor.

Dallas, Tex.—J. M. Preston, City Engr., is preparing plans for a storm sewer in Pennsylvania Ave., South Dallas. The cost is estimated at from $30,000 to $40,000.

Eugene, Ore.—The City Council has ordered the construction of sewers in various streets, at an estimated cost of $12,000.

Alameda, Cal.—Bids will be received by F. E. Browning, Clk., City Council, until 8 p. m., Aug. 15, for constructing an intercepting sewer in accordance with plans and specifications on file with the Clerk.

Dinuba, Cal.—Tentative plans for an outfall sewer system to cost $35,000 have been adopted by the City Council.

Los Angeles, Cal.—Bids have been received by the Board of Public Works for constructing sewers in Vermont Ave., between Stauson Ave. and 40th St., as follows: W. F. Eggert, $40,995; Pete Tomich, $36,395; M. S. Cummings, $102,141; M. R. Fulmis, $38,200; O. O. Farmer, $47,100; John Balch, $38,671; Peter Grobovach, $33,900; John Radich, $33,500; W. W. Hendricks, $47,000; R. N. Nikcevich, $39,000; J. Cristich, $40,140; Mlagenovich & Gillespie, $43,995; J. Mohan, $38,800; Joe Chutuk, $29,819; George Wujachich, $37,384.

Santa Maria, Cal.—The Board of Trustees have retained Harland & Tibbetts, Engrs., San Francisco, to prepare plans for a municipal sewer system. The length of the system, exclusive of the outfall, will be 6,300 ft., and the cost is estimated at $60,000.

Windsor, Ont.—Bids will be received by Stephen Lusted, City Clk., until 4 p. m., Aug. 22, for constructing a concrete outlet for Parent Ave. sewer under the Grand Trunk Ry. tracks. M. E. Brian is City Engr.

St. Mary's, Ont.—Plans and specifications for a sewer system and a sewage disposal plant, have been prepared by W. S. Brooke, Toronto, Ont. The cost is estimated at $201,500.

GARBAGE DISP[illegible]AL.

(*+Denotes a contract a[illegible]ed.*)

New York, N. Y.—Bids [illegible]ill be received by George Cromwe[illegible]res. Boro. Richmond, until noon, Au[illegible] for furnishing all the labor and [illegible]rials required for the constructi[illegible] a radial brick chimney at the Ci[illegible] Destructor, Boro. Richmond, City [illegible] York.

Utica, N. Y.—The Boar[illegible] Contract and Supply is preparing [illegible]advertise for bids for sweeping the [illegible]ts of the city, removing the ashes [illegible] rubbish and for the collection an[illegible]moval of garbage, all for a period [illegible]ve years. The three contracts expir[illegible] Oct. 1.

Jacksonville, Fla.—The [illegible]. Painter Fertilizer Co., of Jackson[illegible] is considering the installation [illegible] garbage reduction plant and addi[illegible]al fertilizer warehouses.

Birmingham, Ala.—The [illegible]ty Commissioners, it is reported, [illegible] investigating the construction o[illegible]ree garbage crematories for this [illegible]

Newport, Ky.—The Boa[illegible]f Aldermen, it is reported, is con[illegible]ring the installation of a garba[illegible] disposal plant.

Lorain, Ohio.—S. Mendels[illegible], of Elyria, Ohio, recently granted [illegible]franchise for the disposal of garbage for ten years in Lorain, will soon commence construction of a garbage reduction plant. Estimated cost, about $30,000.

Berkeley, Cal.—The Counc[illegible] has appointed E. Q. Turner, Comr. Pub. Wks., to report on the best form [illegible] an incinerator to cost about $60,[illegible].

Mill Valley, Cal.—See [illegible] under Light, Heat and Power Pla[illegible].

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

Rockland, Me.—Bids will be received by Edw. A. Knowlton, City Clk., until Aug. 15, for widening and paving Sea St. L. O. Norwood is City Engr.

+Concord, N. H.—We are officially advised that a contract for constructing 2¾ miles of gravel road in the town of Campton, has been awarded to MARTIN & CONDON, Watertown, Mass. Noted July 27.

+Concord, N. H.—Contracts for state road construction have been awarded as follows: Hooksett Road, E. J. ROURKEE, Abington, Mass., at $15,001; Bedford Road, C. W. TRION, Meriden, Conn., at $6,312. The lowest bid received for the Merrimac Road was submitted by E. J. Rourke, Abington, at $20,773. Noted July 20.

+Boston, Mass.—The contract for excavating and paving Canterbury Branch of Stony Brook has been awarded to JONES & MEEHAN, 10 Tremont St., Boston, at $25,212. Other bids were: J. C. Coleman & Sons Co., $25,321; Coleman Brothers, $34,390; J. H. Ferguson, $43,512; Coughlin & Shei's Co., $46,608. Louis K. Rourke is Comr. Pub. Wks.

+Southbridge, Mass.—A contract for paving Hamilton St., from Pine St. to the State highway, with brick, has been awarded to AIME LANGEVIN, Southbridge, at $29,467. The other bids were: Field, Barker & Underwood, Philadelphia, $29,832; Worcester Paving Co., Worcester, $31,581; Hassam Paving Co., Worcester, $31,722; F. H. Cowin Co., Dorchester, $37,642. Bids for brick and macadam, the brick to extend from Pine to Oliver Sts., and macadam the remainder of the way were: Aime Langevin, $19,810; Hassam Paving Co., $19,871; Worcester Paving Co., $20,034; Field, Barker & Underwood, $22,197; F. H. Cowin Co., $23,129.

Boston, Mass.—Bids will be received by the Metropolitan Park Commissioners until Aug. 14, for constructing granolithic walks, gutters and curbs at Charles River Dam, about 5,700 sq. yds. Wm. B. de las Casas is Chn. Park Comn.

Boston, Mass.—Bids will be received by the Public Works Department until Aug. 14, for constructing a tar macadam roadway in Brinsley St., Dorchester District, and granite block paving in Bryant St., Roxbury District. Louis K. Rourke is Comr. Pub. Wks.

Boston, Mass.—Bids were received on Aug. 1 by the Massachusetts Highway Commission as follows: for the construction of 7,600 ft. of macadam road in Barre, Mass., P. F. Giovanni, Boston, $7,864; F. J. Mague, West Newton, $8,237; C. E. Horne, Newton, $8,651; G. J. Celliti, Springfield, $9,091; Morrell & De Pollito, Boston, $9,439; Ahram Bros., Willimantic, Conn., $9,564; Worcester Broken Stone Co., $9,749. For the construction of 8,100 ft. of gravel roadway in Chelmsford: De Stefam & De Cristoforo, Boston, $3,64[illegible]; W. J. Denault & Co., Lowell, $3,79[illegible]; H. W. Tarbell, Lowell, $3,909; Morrell & De Pollito, $4,748, Ahram Bros., $5,173; D. Di Pietro, Boston, $5,358; J. H. Fannon, Somerville, $5,414; August Sauciers, So. Framingham, $5,472; M. L. Camorce, Lee, $6,608; J. A. Gaffey, Medford, $6,640.

+Springfield, Mass.—FRED T. LEY & CO. INC., Springfield, Mass. and Waterbury, Conn., have been awarded the contract for the extension of Locust St. at $18,056. Other bids were: Birnie, Adams & Ruxton Co., Springfield, $18,959; Daniel O'Connell's Sons, Holyoke, Mass., $19,526; Caeser A. Rossi, Torrington, Conn., $21,452; Clinton Fireproofing Co., Clinton, Mass., $[illegible],913.

Newport, I.—Bids will be received
by the Bu u of Yards and Docks,
Navy Dept Washington, D. C., until
11 a. m., S t. 2, for grading ground
adjacent to mmandent's quarters, na-
val station Narragansett Bay, New-
port. Spe cations are on file at the
office of E neering News, New York.

Newport. I.—Bids will be received
by the Bu u of Yards and Docks,
Navy Dept Vashington, D. C., until 11
a. m., Aug , for constructing pave-
ment and nolithic floor at the Na-
val Trainin Station, Newport. R. C.
Hollyday is Chief of Bureau. Specifi-
cations are file at the office of Engi-
neering N , New York.

Hartford. onn.—Plans for proposed
state road rk have been received at
the office o the State Highway Com-
missioner, follows: From Div. Engr.
William H. night, 3,400 lin. ft. on the
Roxbury R in the town of Bridge-
water; from Engrs. Hall & Bacon, 6,463
lin. ft. in the town of Berlin; from Div.
Engr. James A. McElroy, 12,800 lin ft.
on the Smith Ridge Road in the town
of New Canaan; from Engr. C. H. Nick-
erson, 1,300 lin. ft., in the town of
Washington.

Hartford. Conn.—Bids will be received by the State Highway Commissioner until 2 p. m., Aug. 10, for state road work in various towns.

✚Naugatuck, Conn.—The contract for laying 3,100 sq. yds. of vitrified brick pavement on a concrete base, has been awarded to FIELD, BARKER & UNDERWOOD, Philadelphia, Pa., at $2.78 per sq. yd. for Mack block. Other bids were: Joseph S. Barbara, Waterbury, Conn., Mack block, $2.89 per sq. yd., Metropolitan block, $2.78; Clearfield block, $2.85 per sq. yd.; Fred. T. Ley & Co., Inc., Springfield, Mass. and Waterbury, Conn., (a) $2.84, (b) $2.86; H. S. Driscoll, Hartford, Conn., (a) $3.63, Hammond block, $3.46; Pierson Engineering & Construction Co., Bristol, Conn., (a) $2.89, quarter block, $2.85; Connecticut Hassam Paving Co., (a) $2.84; Shomman block, $2.73; Robert D. Daly, (a) $2.83; August Fiege, (a) $3.06. Noted July 6 and 27.

✚New Haven, Conn.—The UNITED STATES WOOD PRESERVING CO., 165 Broadway, New York, have been awarded the contract for paving Church St., from Chapel to Elm St. with creosoted wood blocks, at $7,704.

✚Waterbury, Conn.—The contract for building a macadam roadway in Riverside St. has been awarded to MASCETTI & HALLEY, Torrington, Conn., at $10,360. The other bids were; Edward McManus, $10,653; Edward B. Reilly, $10,910.

✚Albany, N. Y.—Contracts for street improvement have been awarded as follows: Quail St., from Myrtle to Woodlawn Ave., and Providence St., from South Lake Ave. to Quail St., to G. C. STEPHENS, at $19,984 and $12,419, respectively; Sherman St., from Ontario to Partridge St., to TIMOTHY E. KERWIN, at $9,990; Livingston Ave., from Ontario St. to the Black Road, and the Black Road, from Livingston Ave. to the Manning Boulevard, to BENJAMIN F. MULDERRY, at $9,076.

✚Newburgh, N. Y.—The contract for paving Colden and Water Sts., between Broadway and South St., with Mack vitrified brick, has been awarded to the JERSEY PAVING CORPORATION, Newark, N. J., at $23,139.

✚Mount Vernon, N. Y.—A contract has been awarded to JAMES CIARCIA, at $5,195, for grading, paving and otherwise improving East Fourth St., from Columbus to Tecumseh Ave.

New York, N. Y.—Bids will be received by the Park Board until 3 p. m., Aug. 17, for setting and resetting curbstones, paving with asphaltic mixture the roadway, and with rock asphalt mastic the sidewalks, repairing the drainage and otherwise improving the transverse road No. 2, crossing Central Park from 79th St. to 81st St.

New York, N. Y.—Bids will be received by the Commissioner of Water Supply, Gas and Electricity, until 2 p. m., Aug. 15, for furnishing materials, repairing and restoring artificial stone sidewalks on various streets.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 p. m., Aug. 16, for regulating, grading, paving, etc., various streets.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Aug. 21, for regulating, paving and otherwise improving various streets.

Syracuse, N. Y.—Bids will be received by the Board of Contract, John J. Halloran, Secy., until 1:30 p. m., Aug. 14, for constructing a stone, cement, asphalt or brick sidewalk, 5 ft. wide, on the east side of Dewitt St., from Brattle Road to Park St., in accordance with the plans and specifications on file in the office of the Board of Contract and Supply.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., Aug. 11, for regulating, paving and grading Monroe Court, from Pawling to Fonda Aves. James M. Riley is Secy. of Bd.

Buffalo, N. Y.—The City Council has awarded the following paving contracts: H. P. BURGARD CO., Eagle St., 40 ft. wide, asphalt; Oak St., 38 ft. wide, asphalt; Princeton Pl., 24 ft. wide, brick; Keppel St., 20 ft. wide, brick, and Lansing Pl., 26 ft. wide, brick; GERMAN ROCK ASPHALT & CONCRETE CO., Houghton St., 28 ft. wide, asphalt; Washington St., 42 ft. wide, asphalt; Day's Park, 30 ft. wide, asphalt; F. V. E. BARDOL, Northrup Pl., 26 ft. wide, brick; BENJAMIN F. SPIRE, Maurice St., 26 ft. wide, brick.

Hammonton, N. J.—Bids will be received by W. R. Seely, Town Clk., until Aug. 11, for constructing Portland cement sidewalks and curbing on portions of various streets about 60,000 sq. ft. sidewalk and 15,000 lin. ft. curb.

✚Newark, N. J.—The contract for paving West Kinney St., from High to Washington St., with granite, has been awarded to the NEWARK PAVING CO., at $6,352.

Bids will be received by the Board of Street and Water Commissioners until Aug. 17, for repaving Market St., from Pierson Alley to the Pennsylvania Railroad, with bitulithic pavement on an 8-in. concrete foundation, requiring 22,500 sq. yds. bitulithic pavement, and 7,000 lin. ft. granite curb set in concrete; also for grading, curbing and flagging Fourth St., from Bloomfield to Third Ave., and from Bloomfield to Abington Ave., and for grading, curbing and flagging Devine St., from 14th to South Orange Ave.

✚Paterson, N. J.—A contract for constructing about 5,000 lin. ft. of curb and gutter on Van Dyke Ave., and 3,000 lin. ft. on Haledon Ave., has been awarded to JOHN E. FOLEY, Paterson, at 74 cts. per lin. ft. Other bids were: William G. Broadhurst, 79 cts. per lin. ft., on Van Dyke Ave., and 82 cts. on Haledon Ave.; Sharpe & Bryant, 74½ cts. per lin. ft., with an additional cost of 1 ct. per lin. ft. for 2 × 4 strips; Daniel Zeluff, 75 cts., with 2 cts. per lin. ft. additional for the strips.

***Woodstown, N. J.**—We are officially advised that bids for improving East and West Aves. were received on July 31, as follows: Filbert Paving & Construction Co., Philadelphia, Pa., $16,746; J. F. Shanley & Co., Philadelphia, Pa., $15,045; Richmond & Craig, Cedarville, N. J., $14,029 and $16,169; W. S. Conover, Trenton, N. J., $14,198; United Paving Co., Atlantic City, N. J., $17,232, $18,250 and $22,856.

✚Newark, N. J.—The contract for repaving Bloomfield Ave., from Mt. Prospect to Belleville Aves., with granite block pavement has been awarded to the JERSEY PAVING CORPORATION, at $19,720, and for Malvern St., from Pacific St. to Wheeler Point Road, to the STANDARD BITULITHIC CO., at $33,700.

✚Westfield, N. J.—We are officially advised that bids were received by the Town Council on July 17 for paving North Ave., and the contract was awarded on July 24, as follows: LIDDLE & PFEIFFER, Perth Amboy, N. J., $10,420 (awarded contract); A. G. Milligan, New Rochelle, N. J., $10,982; Monroe Paving Co., Philadelphia, Pa., $10,860; Weldon Contracting Co., Rahway, N. J., $11,425; Osborn & Marsellis Co., Montclair, N. J., $11,429; Atkinson Construction Co., New York City, $11,162; C. H. Winans Co., Linden, N. J., $13,026.

The contract for constructing concrete sidewalks was awarded to CHAS. A. PETERSON, Plainfield, N. J., at $2,943. Charles Clark is Town Clk. Noted June 29.

Camden, N. J.—Bids will be received by Edward Francis Chn. Com. on Streets and Highways, until 8 p. m., Aug. 15, for paving portions of various streets. Plans are on file at the office of the City Engineer.

Camden, N. J.—Bids will be received by the Board of Freeholders of Camden County until 10.30 a. m., Aug. 16, for the contsruction of a gravel road from Gibbsboro to Berlin, a distance of 2.92 miles. Plans are on file at office of State Commissioner of Public Roads.

***Hasbrouck Heights, N. J.**—Bids will be received by A. C. Austin, Mayor, until 8 p. m., Aug. 14, for improving Terrace Ave. Plans are on file at the office of R. D. Earle, Jr., County Engr., Hackensack. G. H. Ramsden is Clk.

***Rahway, N. J.**—Bids will be received by the Common Council until 8 p. m., Aug. 15, for repaving Main St., from the Pennsylvania Railroad to Commerce St. Franklin Marsh is City Engr., and Charles H. Lambert is City Clk.

Edgeworth (Sewickley post-office), **Pa.**—Bids will be received by the Borough Council of Edgeworth, until 7.30 p. m., Aug. 14, for grading, paving and curbing a portion of Church Lane. Plans are on file at the office of A. G. Shaw, Engr., Magee Bldg., Pittsburg.

Philadelphia, Pa.—Bids will be received by the Bureau of Highways, Dep. of Pub. Wks., until Aug. 14, for resurfacing macadamized roads and asphalt-paved streets.

Linesville, Pa.—Bids will be received by the Town Council until Aug. 12, for grading, curbing and paving Mercer and Penn Sts. S. W. Lowing is Secy.

Oil City, Pa.—Bids will be received by C. W. Mullalley, City Contr., until Aug. 14, for grading, curbing and paving with brick or bituminous surface about 7,400 sq. yds. of street.

Annapolis, Md.—We are officially advised that bids for grading and surfacing with macadam Patapsco Ave., in the town of Brooklyn, Md., from First St. to Pennington Ave., a distance of about a mile, were received on Aug. 1, as follows: Thomas C. Forsythe, $18,974; Hassam Paving Co., $23,479; H. E. Gray, $18,326 (awarded contract subject to approval of State Roads Commission). S. O. Tilghman is Clk. Noted July 27.

Washington, D. C.—Bids were received as follows on July 31 by the Commissioners of the District of Columbia for grading (a) 5,000 cu. yds., Rhode Island Ave. N. E.; (b) 25,000 cu. yds., Irving St. N. E.: Wm. F. Cush (b) 24 cts.; E. G. Gummel, (a) 39 cts., (b) 22 cts.; G. B. Mullen, (a) 44 cts., (b) 29⅞ cts.; George Hyman, (a) 39 cts., (b) 26½ cts.

Wise, Va.—Bids will be received by the Board of Supervisors until Aug. 23, for constructing 272,000 sq. yds. of macadam pavement.

✚*Key West, Fla.—We are officially advised that the contract for grading, curbing and paving certain streets has been awarded to the SOUTHERN ASPHALT & CONSTRUCTION CO., Birmingham, Ala., at $185,000. The item bids were: 57,000 sq. yds. vitrified brick pavement, $2.14 per sq. yd.; 10,000 sq. yds. asphalt block pavement, $2.85 per sq. yd. Noted July 6.

✚Wetumpka, Ala.—We are officially advised that a contract for constructing sand, clay and gravel roads, has been awarded to F. M. PERRY, Montgomery, Ala., at $25,180. C. L. Strange is County Engr.

Louisville, Ky.—The Board of Public Works is considering the construction of an asphalt street from the old city limits on the Bardstown Road to the new city limits at Woodburn Ave., a distance of 3,500 ft. The cost is estimated at $42,000. D. R. Lyman is City Engr.

Louisville, Ky.—Bids will be received by the Board of Public Safety, until 2 p. m., Aug. 16, for constructing asphalt pavement and vitrified block gutters on the south side of Broadway, at an approximate cost of $25,000.

Louisville, Ky.—Bids will be received by Board Public Works until Aug. 14, for paving with vitrified brick portions of Rosewood, Mossrose, Bellewood and Hite Aves. and Beardstown Road. Caldwell Norton is Chn.

Frankfort, Ky.—Bids will be received by R. C. Hieatt, Court House, Frankfort, until Aug. 10, for constructing about four miles of turnpike road, from Lawrenceburg Turnpike to Lane's Mill Turnpike.

✚Bowling Green, Ohio.—We are officially advised that the contract for improving the Alfred A. Harris stone road was awarded on July 31 to the WOOD COUNTY STONE & CONSTRUCTION CO., at $32,860. F. W. Toan is Audr. of Wood County. Noted July 6.

Canton, Ohio.—Bids will be received by the Board of Stark County Commissioners until 10 a. m., Aug. 21, for constructing the Jacob Wehl Culvert No. 81208-A in Lake Township, in accordance with the plans and specifications on file at the office of J. H. McConnell, Audr. of Stark County.

Delaware, Ohio.—Bids will be received by W. F. Whittier, County Surv., until Aug. 12, for constructing the Crandall macadam road, four miles long.

Mt. Gilead, Ohio.—Bids will be received by the Board of County Commissioners until Aug. 18 for the construction of four roads. Clifton Sipe is County Audr.

Bids will be received by the Morrow County Commissioners until Aug. 11 for repairing Denmark and South Canaan Pikes. David Underwood is County Surv.

Sandusky, Ohio.—Bids will be received by John Bing, Dir. Pub. Serv., until Aug. 15, for grading, curbing and paving Huron Ave., requiring about 7,200 sq. yds. paving and 3,400 ft. of curb; Taylor St., 3,900 sq. yds. brick or sheet asphalt and 2,800 ft. stone or concrete curbing; Jackson St., 1,500 sq. yds. brick pavement and 1,000 ft. concrete curb.

Athens, Ohio.—Bids will be received by the Commissioners of Athens County until Aug. 14, for grading and paving with brick a road 1½ miles long in York Township, under the provisions of the state highway law. The estimated cost is $16,073.

Bellaire, Ohio.—Bids will be received by the Trustees of Pultney Township until noon, Aug. 18, for furnishing 1,300 yds. of stone. W. J. Campbell is Clk. Pro Tem. Geo. Kern is Pres.

✚Canton, Ohio.—We are officially advised that bids for grading and paving with brick 2.16 miles of road in Plain Township, were received on Aug. 4, as follows: F. A. Downs Construction Co., Canton, $37,000; Wm. Vogt & Sons, Massillon, Ohio, $37,573; J. S. Brown, Newcomerstown, Ohio, $36,400; PHILLIP DIEFFENBACHER & SONS, Massillon, Ohio, $34,437 (awarded contract). James R. Marker is State Highway Comr. Noted July 27.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Aug. 25, for improving the road from Hooven to Chidlaw Ave., near Maple Grove Cemetery, Whitewater Township. Plans are on file at office of Board. Stanley Struble is Pres. Fred. Dreihs is Clk.

Cleveland Heights, Ohio.—Bids will be received by H. H. Canfield, Vil. Clk., until noon, Sept. 5, for grading, paving and draining a part of Wilton Road.

Fostoria, Ohio.—Bids will be received by the Director of Public Works until noon, Aug. 14, for grading, paving and curbing various streets. J. T. Yant is Clk.

Hillsboro, Ohio.—Bids will be received until Aug. 23 by the Commissioners of Highland County for the improvement of the Short Line pike near Hilltop Cemetery, Dunlap and Jones Road and the Salked Lakin Road.

Marysville, Ohio.—Bids will be received by the Commissioners of Union County until Aug. 17, for the construction of the Moore Road in Washington Township.

New Philadelphia, Ohio.—Bids will be received by the Board of Commissioners of Tuscarawas County until 1 p. m., Aug. 28, for constructing about 1,580 ft. of macadam road south of the Newport pike, Mill Township; also for grading Reese Hill, Wayne Township. Plans on file at the office of W. C. Shott, County Audr.

Norwalk, Ohio.—Bids will be received by the Commissioners of Huron County, until Aug. 17, for grading and macadamizing 1.57 miles of road in Sherman Township, under the provisions of the state highway law. The estimated cost is $10,875.

Woodsfield, Ohio.—Bids will be received by the Commissioners of Monroe County until Aug. 12, for grading and paving with brick 1.08 miles of road in Center Township after the plans of the state highway department. The estimated cost is $18,891.

Wooster, Ohio.—Bids will be received by the Commissioners of Wayne County, until Aug. 18, for grading and paving with brick a road 1.52 miles long in East Union Township under the provisions of the state highway law. The estimated cost of the work is $18,710.

Xenia, Ohio.—Bids will be received by the Commissioners of Greene County until Aug. 15, for grading and macadamizing 1.13 miles of road in New Jasper Township, estimated at $6,247, and 2.5 miles of road in Cedarville Township, estimated at $9,534, and for grading and graveling 1.83 miles of road in Miami Township, estimated at $5,774.

✚Wyoming, Ohio.—Bids for improving Burns and Wilmuth Aves with curb and gutter, have been received as follows: Schubert and Wieferling, Burns Ave., $6,567; Wilmuth, $1,369; B. Niehaus, $5,667; $1,232. E. P. Koenig, $6,431. John Snyder, $6,358; $1,345; D. A. Walker, $7,695; $1,658. Gordon Engineering Co., $7,282; $1,660. W. J. Keanan, $7,260; $1,484. JAMES N. McJOYNT, $5,485; $1,172 (awarded contracts).

✚Toledo, Ohio.—A contract for repairing the Jerusalem stone road from the city line to Booth station, in Oregon Township, has been awarded by the County Commissioners to GARRIGAN BROS., at $27,167. Limestone and Carbo-via binder are the materials to be used. Other bids were: John D. Raymer, $28,187; Anson Green, Grand Rapids, Mich., Bermudez, $34,123; Russell & Jennison Co., Carbo-via, $27,548. Johnson, Van Wagner & Johnson, Carbo-via, 2½ gallons to lin. rod, Bellevue limestone, $27,913; Waterville limestone, $30,044; Carbo-via, 2 gallons to lin. rd, Bellevue limestone, $25,173, and Waterville limestone, $27,304. Melrose Stone Co., Carbo-via binder, Bellevue stone, $25,113; Waterville stone top, $27,456; Bermudez binder, Bellevue stone, $27,806; Waterville stone top, $30,149.

St. Clairsville, Ohio.—Bids will be received by the County Auditor until Aug. 14, for macadamizing High Bridge Road, in Belmont County.

Marion, Ind.—Bids will be received by the Commissioners of Grant County until 2 p. m., Aug. 14, for the construction of a macadamized road known as the Pickett Road in Mill Township, the Harris Road, the Newton Harris Road and the Jay Gravel Roads in Franklin Township. A. Y. Stout is County Audr.

Terre Haute, Ind.—Bids will be received by the Commissioners of Vigo County until 11 a. m., Aug. 19, for the construction of 2,903 ft. of gravel road known as the Collins or Canal Road in Honey Creek Township. Nathan G. Wallace is County Audr.

✚*Albion, Mich.—We are officially advised that contract for grading and paving Michigan Ave. was awarded on Aug. 2 to RICHARD HEYSTEK. W. R. Noyes is City Clk. Noted July 27.

Marcellus, Mich.—Bids will be received by Will M. Beadle, Village Clk., until noon, Aug. 22, for agout 2,700 sq. yds. tarvia macadam paving and 950 lin. ft. cement curb and gutter on Main St. Plans are on file at office of Village Clerk.

✚Houghton, Mich.—A contract for constructing 4½ miles of highway from Crystal Falls to the Mansfield mine, has been awarded to the PAYNE CONSTRUCTION CO., at $25,000.

Rockford, Ill.—It is proposed to pave West State St. with brick, at an estimated cost of $63,961. The Rockford City Traction Co. will bear a part of the expense.

Glencoe, Ill.—Bids will be received by the Board of Local Improvements until 8 p. m., Aug. 15, for constructing 54,384 sq. ft. of cement concrete sidewalks. Specifications are on file at the office of the Village Clerk. Granville D. Hall is Secy.

Springfield, Ill.—Bids will be received by the Board Public Improvement until Aug. 11, for paving with asphalt on a Portland cement foundation, South Grand Ave. F. Burk is Pres.

Wilmette, Ill.—Bids will be received by Thomas A. Smyth, Pres. Sanitary District of Chicago, until Aug. 10, for constructing sidewalks at and in the vicinity of Sheridan Road Bridge, over the North Shore Channel of the Sanitary District of Wilmette, requiring

approximately 6,900 ft. cement and 4,800 sq. ft. under sidewalk and 1,450 lin. ft. 4-in. tile drain.

+Milwaukee, Wis.—The contract for paving the car zone with asphalt between Vliet St. and Lisbon Ave., has been awarded to the BADGER CONSTRUCTION CO., Milwaukee at $1.45 per sq. yd.

Milwaukee, Wis.—Bids will be received by Harry E. Briggs, Comr. Pub. Wks., until Aug. 14, for constructing a bituminous pavement on concrete foundation on various streets, the total area being approximately 178,600 sq. yds.

West Allis, Wis.—Bids are being received by the Common Council for macadamizing National Ave., from 48th to 75th Ave., at a cost of $56,000. Frank E. Walsh is Mayor.

Reedsburg, Wis.—Bids will be received by A. W. Huebing, City Clk., until 7.30 p. m., Aug. 16, for macadamizing Third and Locust Sts. Plans are on file at office of City Clerk.

Bettendorf, Iowa.—Bids will be received by W. O. Calvert, Mayor, until Aug. 10, for excavating about 17,000 cu. yds., paving 30,000 sq. yds. with concrete, and constructing about 11,000 lin. ft. of curb.

Marshalltown, Iowa.—Bids will be received by L. Derby, City Clk., until Aug. 21, for about 14,000 sq. yds. cement paving and 2,450 lin. ft. curbing.

+Oelwein, Iowa.—Contracts for paving about 40,000 sq. yds. of streets has been awarded to DEARBORN & JACKSON, Cedar Rapids, Iowa, and WILLIAM HORRABIN, Iowa City.

Winterset, Iowa.—Bids will be received by H. S. Ely, City Clk., until Aug. 16 for constructing about 12,000 sq. yds. asphalt pavement.

Minneapolis, Minn.—Bids will be received by A. P. Erickson, County Audr., until Aug. 21, for grading and macadamizing Road No. 41.

Chanute, Kan.—Bids will be received by the Chanute and Tioga Township Road Commission until noon, Aug. 12, for constructin one-half mile of gravel road. Plans are on file at office of S. E. Beach, Mayor.

Lubbock, Tex.—The City Council will soon ask bids for the construction of 42,000 sq. ftfl of concrete sidewalks.

+Duncan, Okla.—We are officially advised that a contract for paving with vitrified brick block, eight blocks in the business district, has been awarded by the Board of Commissioners to the CONNELLY CONSTRUCTION CO., El Reno, Okla., at $55,000. W. L. Benham, Oklahoma City, Okla., is Consult. and Superv. Engr.

+Tacoma, Wash.—The contract for paving and regrading South 25th St. has been awarded to the KEASAL CONSTRUCTION CO., at $88,200. Other bids were: Joseph Marten, $92,975; Gallucci De Rose, $90,000.

Lodi, Cal.—Bids will be received by the Board of Trustees, until 8 p. m., Aug. 14, for paving a part of Sacramento St., with asphalt. J. M. McMahon is Clk.

+Los Angeles, Cal.—Bids for the improvement of 16,465 lin. ft. of the Eagle Rock Road, according to the plans and specifications of the Highway Commission of Los Angeles County, were opened on July 24, by the Board of County Supervisors as follows: Gailey & Clark, (a) grading, 25 cts. per cu. yd; (b) subgrade and shoulders, 10 cts.; (c) class A concrete, $15 per yd; (d) class C, $14; (e) reinforcing steel 5 cts. per lb.; (f) pipe railing, $2 per ft.; (g) metal pipe $1.30 per ft; (h) oil macadam paving, $1.28 per ton. Montgomery & Marsh, bid (a) 39 cts.; (b) 8 cts.; (c) $12; (d) $10; (e) 4½ cts.; (f) $1.25; (g) $1.25; (h) $1.45. Hudson-Johnson Construction Co., (a) 35 cts.; (b) 10 cts.; (c) $13; (d) $15; (e) 4c.; (f) $1.50; (g) $1.50; (h) $1.85.

MANUFACTURING PLANTS.

(*+Denotes a contract awarded.*)

Bangor, Me.—Plans are being prepared for the construction of factory building to be 4-story, 46 x 68 ft., for the Penobscot Machinery Co., Bangor, Me. Plans by Jardine, Kent & Hill, 3 West 29th St., New York City.

Lynn, Mass.—The Spinney-Tarr Co. has been organized for the manufacture of paints, varnishes and paint supplies. Capital, $100,000. Ellsworth R. Spinney is Pres. of Co.

Pittsfield, Mass.—A brick addition to the mill of the Berkshire Woolen & Worsted Co. will soon be erected. This will be for carding and spinning machinery.

+Revere, Mass.—The contract for the factory building for the New England Cotton Waste Co. has been awarded to the N. E. CONCRETE CO.

Worcester, Mass.—A brick beef sale house is planned by the Worcester Cold Storage & Warehouse Co., to be 60 x 80 ft., two stories, to cost $32,000. E. J. Cross Co. are the builders.

Worcester, Mass.—The New England Corset Co. has been organized for the manufacture of corsets. Capital, $50,000. J. Howard Jaynes is Pres.

Holyoke, Mass.—The Donoghue Silk Co. has been incorporated to manufacture silk, rubber, cotton and woolen goods. The capital is $50,000, and the incorporators are Mark B. Carpenter, Florence J. Donoghue and Patrick F. Donoghue.

Chicopee Falls, Mass.—The FRED T. LEY CO., Inc., of Springfield, Mass., and Waterbury, Conn., has been awarded the general contract for a number of buildings at the plant of the Fiske Rubber Co., an additional story. The buildings are 50 x 91 ft., 20 x 17 ft., 30 x 50 ft. and 49 x 210 ft., the latter will be fitted up for the offices. All are of brick, mill construction. George B. Allen, 193 Ashley St., Hartford, Conn., is the Arch.

Greenfield, Mass.—The Farley Paper Co. are planning the erection of two buildings at their present plant. One will be 320 x 36 ft., one story high, and the other 40 x 94 ft., two stories high.

West Springfield (Springfield postoffice), **Mass.**—Edward H. McClintock, 33 Lyman St., Springfield, will have plans completed about Aug. 10 for the plant of the Gilbert & Barker Mfg. Co. at Union St. and Cold Spring Ave. There will be eight buildings besides a coal pocket, barn, garage and sheds. The main machine shop will be 63 x 105 ft., two stories high, with skylight roof; the other buildings will be a sheet metal building, 160 x 250 ft., one story high with flat roof; furnace building, 83 x 120 ft., one story high; two storage buildings, one 30 x 90 ft. and the other 30 x 117 ft., each one story high; a power house, 52 x 90 ft.; an office building, 40 x 65 ft., two stories and basement, and a testing house, 25 x 30 ft. All the buildings will be built of brick, mill construction, with concrete foundations and granite trim.

Pawtucket, R. I.—Factory building will be constructed here by the Crown Mfg. Co. for the manufacture of cotton goods. The estimated cost is $100,000. There will be a main building, 138 x 340 ft., two and three stories, and a power-house, 40 x 56 ft., one story high.

Cranston, R. I.—The Consumers Brewing Co. has been organized for the brewing of malt liquors. Capital, $125,000. Max E. Naumann is Pres.

Ansonia, Conn.—Plans are being prepared by Johnson & Burns, Inc., Archs., 26 State St., Hartford, Conn., for an office building to be erected on Main St. for the Farrel Foundry & Machine Co. The building will be of brick and steel, fireproof construction, 68 x 25 ft., with an extension 50 x 55 ft., both 2½ stories high with tile roofs reinforced-concrete floors and vaults.

+Hartford, Conn.—Contracts for the addition to the plant of the Terry Steam Turbine Co., on Windsor St., have been awarded to DANIEL O'CONNELL'S SONS, Holyoke, Mass., general contract; and for the steelwork to THE BERLIN CONSTRUCTION CO., Berlin, Conn. The building will be 80 x 200 ft., one story high with monitor roof. Plans were drawn by Ford, Buck & Sheldon, Inc., Engrs., 60 Prospect St., Hartford.

+New Haven, Conn.—Contracts for the erection of a brick factory building for the Celluloid Starch Co. on Winchester Ave. have been awarded as follows: Mason work, G. D. WHARTON; carpenter work, G. L. HEDGES; steel work, ROBERT WILSON & SON; painting, H. L. P. HANSEN; roofing, J. E. KELLEY & SON, all of New Haven. Brown & Von Beren, 421-425 Exchange Bldg., New Haven, are the Archs.

+Bridgeport, Conn.—THE DOWLING & BOTTOMLEY CO. have been awarded the contract for the mason work, SCHWARZ BROS. the carpenter work and J. J. SCANLON the plumbing on an addition to the weave shed at the plant of the Salt Textile Co. on Kossuth St. The building will be one story high, 64 x 151 ft., and was planned by Archt. L. H. Gager, of Palmer, Mass.

The plant of the Baird Machine Co., of Oakville, Conn., which is to be built in Stratford, just over the Bridgeport line, will be constructed by day work by the Fletcher Engineering Co., of Bridgeport, who also drew the plans. Noted June 15.

+Wentogue, Conn.—The TORRINGTON BUILDING CO., Torrington, Conn., has been awarded the contract for the erection of a tobacco warehouse, 60 x 205 ft., two stories and basement for the American Sumatra Tobacco Co.

Buffalo, N. Y.—The Jewell Steel & Malleable Co. will build an addition to its foundry at Military Rd, Hertel Ave. and New York Central R. R.

Norwood, N. Y.—Plans are being prepared by the Stebbins Engineering Co., Watertown, N. Y., for a 1-story pulp mill, 60 x 100 ft. for Martin Bros.

Albany, N. Y.—A factory will be erected by the General Carbonic Co., Elizabeth, N. J., for the manufacture of carbonic acid gas. The cost is about $100,000.

The removal here from Saratoga of the main factory of the General Carbonic Co. will mean the erection of three buildings at Mill and Bridge Sts.

Buffalo, N. Y.—The Republic Metalware Co., Tennessee St., will construct a machine shop and storage building at an estimated cost of $65,000. Plans were prepared by Colson & Hudson, 35 Dun Bldg.

+Highland, N. Y.—A 2-story factory building will be erected by the Schule Grape Juice Co. The general contract is held by the TORRINGTON BLDG. CO., Poughkeepsie.

Long Island City (L. I.), N. Y.—Gegnon Realty & Terminal Co. has filed plans for a $75,000 factory building in Meadow St.

+J. F. Blanchard will erect a factory building to be 4-story, 50 x 60 ft., at Long Island City. The general contract is held by T. A. CLARKE, 26 Court St., Brooklyn.

Montgomery, N. Y.—The recently incorporated Security Reliner Co., which has $50,000 capital, is reported to have decided to erect a factory here for manufacturing automobile tires. Elmer I. Emerson, Cashier of the First National Bank, is Pres.

New York, N. Y.—Plans are being prepared by Brook & Rosenberg, 166 Remsen St., Brooklyn, for the construction of a planing mill, 2-story, 60 x 133 ft., for Kiskin & Vlitstin, 350 Moore St., Brooklyn.

Poughkeepsie, N. Y.—Plans have been drawn for the group of buildings which the Delephena Co., a manufacturing concern, will erect here. The estimated cost is $125,000. The company has three-fourths of a mile frontage on the Hudson River, which will be improved. Plans by P. M. Lloyd, 1 Washington St.

Bois Carpenter, Arch., has prepared plans for a 4-story brick addition to the factory of Hine & Lynch, sheet manufacturers.

+The general contract has been awarded to WALTER LLOYD, 392 Church St., for the construction of a bakery for W. H. Frost, 460 Main St.

Rochester, N. Y.—The Stecher Lithographic Co., North Goodman St., will construct a factory addition to be two stories, 368 x 85 ft. The cost is $80,000. George C. Wright, Court House, is Engr.

Syracuse, N. Y.—A 2-story transforming station will be erected by the Syracuse Rapid Transit R. R. Co., Gridley Bldg. Plans have been prepared by W. J. Harvie, Gridley Bldg. The cost is $25,000.

Whitesboro, N. Y.—Plans are being prepared for the construction of a foundry building for Munson Bros. Co. The building will be 1-story high, 100 x 200 ft.

Yonkers, N. Y.—A. R. Mosler & Co., of New York, are receiving bids for the erection of a brick factory, two stories high, 147.9 x 67.9 ft., to be located between Sterling and Yonkers Aves., Wakefield Park. It will be used for the manufacture of safes and automobile supplies.

Harrison, N. J.—The Crucible Steel Co. of America is contemplating the erection of two additional buildings to its plant at Harrison, N. J One of these will be 61 x 260 ft. in dimensions for the press department, and the other 54 x 240 ft. for the treatment department. Both will be of steel construction and will cost about $25,000.

+Hoboken, N. J.—A provision factory to cost $12,000 will be erected by H. Geile at Jackson St. Plans by H. & W. Neuman, 202 Ogden Ave.

Phillipsburg, N. J.—A plant will be erected by the Cameron Pump Co. G. R. Elder, Supt. Ingersoll-Rand Co., of Phillipsburg, is interested. The cost is $1,000,000.

Jersey City, N. J.—The Hartford Suspension Co., Jersey City, N. J., will erect an auxiliary plant on a tract of land recently acquired by them. The building is six stories, 86 x 100 ft., of reinforced-concrete construction. The equipment now at 150 Bay St., its present quarters, will be moved and much additional machinery, all to be electrically driven, will have to be provided after the company has moved.

Homer City, Pa.—A 1-story factory building will be erected by the Prairie State Incubator Co., Homer City. Moore Engineering Co., 403 New England Bldg., Cleveland, Ohio, are Engrs.

Philadelphia, Pa.—An ice manufacturing plant will be erected by the Eagle Ice & Coal Co., 4501 Girard Ave., Philadelphia.

A brewery, brew and storage building will be erected by C. Schmidt & Sons Brewing Co., 127 Edward St. The estimated cost is $30,000. Otto C. Wolf, 511 Denckke Bldg., is Engr and Arch.

Appollo, Pa.—The Appollo Sheet & Tin Plate Manufacturing Co. will construct three mills. The first plant to be built will be in Appollo, then a mill will be built here, and another mill will be erected in Leechburg. The Appollo plant will be that of the Appollo Sheet & Tin Plate Manufacturing Co. and the two other mills will be run by subsidiary concerns.

Columbus, Ohio.—A factory building will be erected by the Columbus Bolt Co. The estimated cost is $50,000.

Cleveland, Ohio.—Plans are being prepared by Nelson & Briggs, 669 Rose Bldg., for the erection of a printing building for the Cleveland Press.

A clock factory and power house, costing $300,000, will be erected by the Sunshine Coal Co., 1243 Third St., and E. M. Silver Co., 1239 West Ninth St. Milton J. Dyer, Cuyahoga Bldg., is Arch.

Hamilton, Ohio.—The Hamilton Brewing Co. will soon commence work on the construction of a brewery and ice factory. The company is capitalized at $100,000. The incorporators are Max Heman and Louis F. Morner.

+Ironton, Ohio.—The BERLIN MACHINE WORKS has been awarded the contract for equipping the plant of W. G. Ward, Ironton, Ohio, now under construction, replacing the factory destroyed by fire recently.

+The Ironton Punch & Shear Co. has awarded the RIVERSIDE BRIDGE CO. a contract for a steel building at Hecla and Aetna Sts.

Massillon, Ohio.—A fac[illegible] building to cost $75,000 will be ere[illegible] by E. D. Yost. Plans are being p[illegible]ed by E. Rice, of Massillon Bridge [illegible]tructural Co.

+Norwood, Ohio.—The [illegible]ract has been awarded to H. HART[illegible] CO., Cincinnati, Ohio, for the c[illegible]ction of an addition to the plant [illegible] Globe-Wernicke Co., manufact[illegible] of office furniture. The building [illegible] of concrete construction, 75 x [illegible]., seven stories high.

Dayton, Ohio.—Plans a[illegible]ing prepared by the Buckeye [illegible] & Brass Works for the erection [illegible] factory. The cost is about $150,0[illegible]

Indianapolis, Ind.—The [illegible] Motor Co., Indianapolis, has pu[illegible]d a site and will erect a 4-story [illegible]rete and steel addition, 100 x 190 f[illegible] its present plant. The cost is $6[illegible]

Linton, Ind.—The Indi[illegible] Steel & Iron Co., capitalized at [illegible]000, will receive bids for the co[illegible]ction of elevators, water-works, [illegible] works, electric works, iron work[illegible]achinery, equipment, etc., for a la[illegible] combination plant. Marcus K. [illegible], Joseph D. Karasik, Angernon [illegible]ville and William J. Hamilton, Dirs.

South Bend, Ind.—The [illegible] Co. has incorporated, capitalized [illegible] $100,000. The company will establis[illegible] plant to manufacture artificial sto[illegible] tile and other building materials. [illegible]eorge B. Pulfer, Pres.

South Bend, Ind.—D. J. Albertson, 305 West Main St., Kalamazoo, Mich., will take bids about Aug. 1, on a 2-story and basement paper mill, to be located at South Bend. Owner, Monarch Paper Co., care Geo. O. Comfort, Kalamazoo, Mich. Cost, $80,000.

Goshen, Ind.—M. Freyberg has purchased a new site on South Third St. on which to erect a 2-story modern laundry building. Bids will be in order later on.

Alpena, Mich.—The Standard Oil Co. will erect a storage plant at Alpena, Mich.

+Highland Park, Mich.—The contract has been awarded to W. E. WOOD CONSTRUCTION CO. by the Ford Motor Co., Highland Park, for a factory 865 x 75, four stories high. Cost, $250,000.

Owosso, Mich.—The construction of a new building will soon commence to replace the plant of the Standard Pure Food Co., which was recently destroyed by fire. The company has been reorganized and will erect the structure under the name of the Standard Flaked Food Co.

Chicago, Ill.—J. A. Tolman will erect a factory to be five stories, 80 x 150 ft. and cost $50,000. W. S. Stebbings, 53 West Jackson Blvd., is Arch.

+The general contract has been awarded to the SIMPSON CONSTRUCTION CO., 133 West Washington St., and the contract for masonry has been awarded to ABRAHAM LUND, 189 West Jackson St., for an 8-story, 150 x 150 ft. factory building for Rogers & Hall, 132 Market St. The cost is $175,000.

+A 10-story factory and office building will be erected by the Sharpless Separator Co. The contract is held by BULLY & ANDREWS, 25 North Dearborn St. The cost is $150,000.

+The contract has been awarded to WILLIAM ADAMS CO., 9 South La Salle St., for the erection of a brass foundry to cost $90,000 for Crane Co., 1214 South Canal St.

+The carpentry contract has been awarded to RICHARD SCOTT, 5205 South Sangamon St., for a factory building, four stories, 50 x 100 ft., for Jacob Press Sons, 300 North Halsted St. Plans by Thomas Macall, 30 North Lasalle St.

The R. K. Maynard Piano Co., 209 State St., has awarded the general contract for a $50,000 factory building to JAMES SHEDDEN & CO., 106 North La Salle St. Plans were prepared by R. S. Lindstrom, 3400 Center Ave.

Quincy, Ill.—The Otis Elevator Co. will construct an additional factory building at Quincy. The building will be 160 x 250 ft. The cost is $50,000.

+Beloit, Wis.—CUNNINGHAM BROS. have been awarded the general contract for an addition to the administration building of the Beloit Iron Works, to cost $12,000.

+Manitowoc, Wis.—The William Rahr Sons Co. has awarded the general contract for the erection and equipment of a new fireproof malt house, malt cleaning elevator and shipping house to the WITHERSPOON-ENGLER CO., Chicago, Ill. Cost, $75,000.

Milwaukee, Wis.—The United Cold Storage Co., Milwaukee, Wis., will construct a 6-story warehouse, 140 x 150 ft., and an adjoining power house for refrigerating.

Two Rivers, Wis.—The Standard Aluminum Co. has increased its capital stock from $15,000 to $50,000 and will proceed with the erection of a factory building, to be 200 x 44 ft. in size, three stories high, of brick and steel construction.

Cedartown, Iowa.—Building will be erected by the Noiseless Wheel & Truck Co., Cedartown, Ga., which is capitalized at $100,000. C. [illegible] Morris is Mgr.

St. Louis, Mo.—The St. Louis Trunk & Mfg. Co. has been incorporated with a capital of $50,000 to manufacture trunks. A plant will be erected. The incorporators are Frank G. Koehler, R. A. Koehler and George H. Martin.

The American Compound Door Co.,

Chicago, Ill., will construct a branch plant in St. Louis.

The Edgar Robert Mfg. Co. has been incorporated for the manufacture of drugs and chemicals. The company is capitalized at $130,000. The incorporators are Edgar Roberts, H. Converse and George Supernowski. A plant will be established in St. Louis.

A 5-story stock house will be erected by the Anheuser-Busch Brewing Ass'n, Ninth and Arsenal Sts. Plans by Widmann & Walsh, Wainwright Bldg.

An automobile factory, to cost $100,000 and be three stories high, will be erected by the Dorris Motor Car Co., at Sarah St. and Laclede Ave. J. L. Wees, Commercial Bldg., is the Arch.

It is reported that the F. Burkhart Mfg. Co., St. Louis, will remodel its present plant and construct an addition. New machinery will be needed.

Austin, Tex.—The butchers of this city are arranging to organize a joint stock company to erect a modern abattoir. H. C. Nolen is interested.

Cisco, Tex.—The Texas Central R. R. will install machine shops here and will make other improvements to its property.

Greenville, Tex.—The Farmers' Electric Gin & Ice Co. has just been formed here to erect a cotton gin and ice plant. Charles M. Dollins is interested.

Houston, Tex.—The Peden Iron & Steel Co. has acquired a site upon which it will erect a large addition to its plant. It is stated that this addition will have a capacity larger than the present plant.

Texarkana, Tex.—The Commercial Acid Co., St. Louis, Mo., will construct a large sulphur factory. The site has already been acquired.

San Saba, Tex.—The Farmers' Union Warehouse & Gin Co. has been formed here with a capital of $10,000. Incorporators are J. H. Hylander, James Burns and J. N. Graham.

Angleton, Tex.—The Angleton Gin & Power company is installing a new cotton gin here. The plant will also provide power for an electric light plant and ice factory which the company will install later.

Dallas, Tex.—The Southern Steel Products Co. has been organized here. The incorporators are C. H. Marguess, Owen Hughes and W. E. Wethered.

Galveston, Tex.—Phoenix West Manufacturing company has been organized here with a capital of $40,000. The incorporators are Leonard Joseph, Ben Sass and Jules Block.

Austin, Tex.—The Fidelity Chemical Fertilizer Co. a newly organized concern capitalized at $60,000, headed by James J. Dawson, is planning to erect a fertilizer plant near Clinton on the north side of the Houston ship channel.

Muskogee, Okla.—The Eagle Mfg. Co., Muskogon, Okla., will erect a building, 192 × 435 ft., of concrete and brick construction.

Oklahoma City, Okla.—The Sten Cracker Co. of Omaha and Clinton, Iowa, will erect a 5-story factory building to cost $150,000.

Tonopah, Nev.—Plans have been completed for a general smelter plant for the United Verde Mine in Verde Valley. A 40-mile branch railroad line will also be constructed to connect with the Santa Fe R. R.

Flagstaff, Ariz.—The Flagstaff Lumber Co. will erect a box factory here to have a daily capacity of 10,000 boxes.

Ventura, Cal.—Cole & Cunningham, of the American Gas Co., will erect a factory here, 200 × 200 ft., for the manufacture of gas engines.

Pasadena, Cal.—S. Hazard Halsted, W. R. Nash and Fred R. Lewis, local capitalists, have filed articles of incorporation in Los Angeles for the formation of the San Antonio Ice Co., with a capital stock of $10,000. The company will engage in the ice business at Ontario and Uplands.

Thorold, Ont.—D. J. Albertson, 305 West Main St., Kalamazoo, Mich., has been commissioned to prepare plans for a tissue paper factory to be located in St. Catherines, Ont. Details have not been decided.

Hamilton, Ont.—The International Harvester Co. announced on Aug. 1 that between $300,000 and $400,000 will be spent this year on extensions. A. E. McKinstry is local Supt.

Louisburg, N. S.—The construction of a fish dryer and cold storage plant is projected by the Gorton Pew Fish Co., Gloucester, Mass.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Locks and Dam.—Sebage, Me.—The H. P. CUMMINGS CONSTRUCTION CO., 319 Washington St., Boston, Mass., has been awarded contract for rebuilding the locks and dam on the Songo River, Me., for the Sebago Improvement Co.

Subways. — Boston, Mass. — Surveys have commenced for the Boylston St., the South Boston and the West End subways. The ground can be broken, however, before the Elevated R. R. and the city agree to accept the act. Probably contracts will be advertised early in 1912. Edmund S. Davis is Acting Ch. Engr. Transit Comrs.

Soil Work, Etc.—Boston, Mass.—Bids will be received until Sept. 1 by the Public Grounds Department for soil work, renovation and grading on Boston Common. Henry Sullivan is Supt. Pub. Ground Dept.

+*Channel Work.—Newport, R. I.—The contract for removing obstructions in Wood's Hole Channel, Mass., has been awarded to JOHN R. BURKE, of Wollaston, Mass., at $49,650. Bids were opened on July 25 by Col. Frederic V. Abbot, Corps Engrs., U. S. A. List of bidders noted on Aug. 3.

+*Dredging.—Newport, R. I.—The contract for dredging in Pawtucket River, R. I., has been awarded to the J. S. PACKARD DREDGING CO., of Providence, R. I., at $29,103. Bids were opened by Col. Frederic V. Abbot, Corps Engrs. U. S. A., on July 18. List of bidders noted on Aug. 3.

Dredging.—Buffalo, N. Y.—The City Council has ordered the dredging of the Buffalo River in accordance with plans and specifications on file in the Bureau of Engineering, Municipal Bldg. Francis G. Ward is Comr. Pub. Wks.

Seawall.—New York, N. Y.—Bids were received as follows on July 20 by the Park Board, Dept. of Parks, for completing riprap foundation and constructing a granite ashlar and concrete seawall and furnishing and placing earth fill back of the wall, along the shore road, between Bay Ridge Ave. and 92d St., Boro. Brooklyn: (a) 7,155 lin. ft. granite ashlar and concrete sea wall; (b) 50,000 tons riprap; (c) 200,000 cu. yds. earth fill; (d) totals: Luke A. Burke & Sons Co., 25 West 42d St., New York, (a) $33, (b) $1, (c) 25 cts., (d) $336,115; J. F. Cogan Co., 280 Broadway, New York (a) $31, (b) 70 cts., (c) 34 cts., (d) $324,805; O'Brien Bros., Inc., 54 South St., New York, (a) $28.75, (b) 70 cts., (c) 30 cts., (d) $300,706; Charles H. Peckworth, 631 Hudson St., New York, (a) $34.24, (b) $1.25, (c) 30 cts., (d) $367,487; Phoenix Construction Co., 41 Park Row, New York, (a) $29.97, (b) 75 cts, (c) 35 cts., (d) $321,935; W. J. Rodgers, 14 West 125th St., New York, (a) $33, (b) 35 cts., (c) 10 cts., (d) $273,615; Rodgers & Hagerty, Inc., 41 Park Row, New York, (a) $27.50, (b) 40 cts., (c) 20 cts., (d) $256,762; Henry Steen, Inc., 17 Battery Pl., New York, (a) $36, (b) 40 cts., (c) 25 cts., (d) $327,580.

Playground.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Aug. 17, for improving the playground located under the Queensboro Bridge, in the block west of Sutton Pl., between 59th and 60th Sts. Charles B. Stover is Pres.

Road Roller.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Aug. 17, for furnishing and delivering one 15-ton 3-wheel gasoline motor road roller.

+Dredges.—New York, N. Y.—The contract has been awarded by the Cape Cod Construction Co., to the AMERICAN LOCOMOTIVE CO., 30 Church St., New York, for constructing two dredges, to be used by the company on the Cape Cod Canal work.

***Dikes.**—Philadelphia, Pa.—Bids will be received until noon, Aug. 30, by Maj. Herbert Deakyne, Corps Engrs., U. S. A., Philadelphia, for constructing four dikes in the Delaware River, below Philadelphia.

***Dredging.**—Philadelphia, Pa. —Bids will be received until noon, Aug. 31, by Maj. Herbert Deakyne, Corps Engrs., U. S. A., Philadelphia, for dredging in the Delaware River near Mud Island, Pa., and Burlington, N. J.

+Dredging.—Philadelphia, Pa.—The AMERICAN DREDGING CO., Philadelphia, has been awarded the contract for about 1,617,000 cu. yds. of dredging at the Tinicum Range in the Delaware River, at 15.3 cts. per cu. yd. The contract for dredging on the New Castle Range, about 500,000 cu. yds. was secured by the AMERICAN CONTRACTING CO., of New York, at 16.7 cts. per cu. yd. Bids were opened by Maj. Herbert Deakyne, Corps Engrs., U. S. A. List of bidders noted on June 29.

+Fire and Police Boat.—Philadelphia, Pa.—The Director of Public Safety on July 25 awarded the contract to PUSEY, JONES & CO., of Wilmington, Del., for the construction of a new fire and police boat to be named the John E. Reyburn, at $38,500. The boat, 80 ft. in length, with a 17-ft. beam and drawing 6¼ ft. of water, is to be completed by Nov. 15, and will carry 800 ft. of hose.

+Immigration Quarters. — Philadelphia, Pa.—The contract was awarded on July 28 to W. S. P. SHIELDS, Witherspoon Bldg., Philadelphia, by Joseph S. Hasskarl, Act. Dir. Dept. Wharves, Docks and Ferries, for the construction of immigration quarters on the Vine St. pier, at $11,551.

+Brick.—Philadelphia, Pa.—The INDEPENDENT BRICK SELLING CO., of Trenton, N. J., has been awarded a contract for the delivery of 10,000,000 common brick prior to Jan. 1. The brick will be used in the construction of the new Boys' and Girls' High School in West Philadelphia.

+Park Development. — Philadelphia, Pa.—Contracts for the development of five new public squares and parks, to cost $61,400, have been awarded, it is reported, to ANDREW F. O'CONNELL, by the Department of Public Safety.

+Dredging.—Philadelphia, Pa.— Bids for dredging the Schuylkill River, from the mouth of the stream north to Walnut St., were opened on Aug. 1 by the Acting Director of Wharves, Docks and Ferries. The AMERICAN DREDGING CO., Camden, N. J., it is reported, has been awarded the contract. The work is divided into three sections extending from the mouth of the river to Walnut St. The American Dredging Co.'s bid was 18½ cts. a cu. yd. for the lower section, 19 cts. a cu. yd. for the middle section and 19 cts. for the upper section.

+*Cement.—Reading, Pa.—Bids were received on July 18, by the County Controller. Reading, for furnishing not less than 30,000 bbls. of cement, to be delivered to the Penn St. bridge site on the Schuylkill River. The contract has been awarded to the ALLENTOWN PORTLAND CEMENT CO., of Allentown.

+River Work.—Scranton, Pa.—The Delaware & Hudson River R. R. Co. has awarded to the MACDONALD CONTRACTING CO., 146 Broadway, New York, the contract, it is reported, for making certain changes in the course of the Lackawanna River, near the Mulberry St. viaduct here.

+Lining Tunnel.—Frostburg, Md.—The VANG CONSTRUCTION CO., of Cumberland, Md., it is reported, has been awarded the contract by the Carter Construction Co. for lining Borden tunnel, near Frostburg, with concrete, on the Western Maryland extension from Cumberland to Connellsville. The tunnel is 800 ft. long and 5,000 cu. yds. will be required.

+*Wharf.—Washington, D. C.—The contract has been awarded to the SANFORD & BROOKS CO., of Baltimore, Md., by the District Commissioners, for the reconstruction of the sand and gravel wharf at Water and Ninth Sts. Bids were opened on July 6. List of bidders was noted on July 20.

Alarm System, Etc.—Washington, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, until Aug. 15, for the following: Newport, R. I., Schedule 3,779, furnishing and installing fire-alarm system; Brooklyn, N. Y., Schedule 3,800, 14 forced-draft blowers; Schedule 3,815, 74,000 ft. interior communication cable; 50,000 ft. night signal cable; 80,000 ft. copper-clad steel wire cable; 50,000 ft. double plain conductor; 50,000 ft. double silk conductor; 30,000 ft. telephone cord, 75,000 ft. bell wire; 1,000 ft. double conductor diving wire; 270,000 ft. twin conductor wire; Schedule 3,808, 86 M ft. yellow pine sheet piling, 50 M ft. yellow pine; Schedule 3,812, 4,340 lbs. bar steel. Portsmouth, N. H., Schedule 3,816, one dynamo. Newport, R. I., Schedule 3,810, 19,000 lbs. I-beam steel. Washington, D. C., Schedule 3,809, 38,700 lbs. boiler-plate steel. Norfolk, Va., Schedule 3,817, miscellaneous iron pipe fittings, 60 gate valves; miscellaneous composition valves; Schedule 3,818, 3,000 lbs. rolled sheet zinc, f. o. b. works; Schedule 3,809, miscellaneous armor plate. Application for proposals should designate the schedules desired by number.

Fountain.—Washington, D. C.—Bids were received on July 26 as follows by Col. Spencer Cosby, U. S. A., Disbursing Officer, Columbus Memorial Comn., Washington, for the stone work, foundations, concrete piles, masonry, etc., and for the plumbing and sewers for the Columbus Memorial fountain to be erected on the Union Station Plaza, Washington: Maine & New Hampshire Granite Co., for all granite and marble work based on the plans and specifications, with the jointing as shown and specified, using North Jay granite, $62,400; same based on alternative scheme of jointing, $62,400; alternate bid, $53,500. J. C. Robison & Son, New York, for the foundation work, complete, $9,853; for granite and marble work, based on plans and specifications, with jointing as shown and specified, $2,854; for granite, $43,500, using Cherokee marble; for granite and marble work based on alternative scheme for jointing, deduct $900. O. L. Meigs, Washington, foundation work, $8,500. Woodbury Granite Co., Hardwick, Vt., for granite or marble work, based on plans and specifications, using Bethel white granite, $76,500; alternate, $69,000; using Woodbury light granite, $57,000; alternate, $53,000. Webb Pink Granite Co., Worcester, Mass., for granite or marble work, $80,000; alternate, $74,500. Davis Construction Co., Washington, D. C., for foundation work, complete, $8,784. R. J. Beall Construction Co., Washington, D. C., for foundation work, complete, $12,984. Norcross Bros., Worcester, Mass., for foundation work, complete, $9,425; granite or marble work, $74,800; alternate, $64,800. Vermont Marble Co., Proctor, Vt., for granite or marble work based on alternative scheme of jointing, $60,500 for marble. Cranford Paving Co., Washington, foundation work, complete, $10,700. Charles J. Cassidy Co., Washington, foundation work, complete, $9,900. A. S. Smith & Co., Washington, foundation work, $7,324; granite or marble work based on plans and specifications, $53,615 for granite and $41,167 for marble; based on alternative scheme of jointing, $49,615 for granite, and $37,163 for marble.

***Mechanical Equipment.** — Washington, D. C.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, until 3 p. m., Sept. 15, for the mechanical equipment, excepting the elevators and mail-handling apparatus, including plumbing, gas fitting, boiler plant, heating and ventilating system, conduit and wiring system, vacuum cleaning system, and induced draft system, for the U. S. post-office, Washington, in accordance with the drawings and specification, copies of which may be had at Washington or at the office of B. H. Burnham & Co., Archs., Chicago, Ill., at the discretion of the Supervising Architect.

Torpedo Boat Destroyers.—Washington, D. C.—Bids were received as follows on Aug 7 by the Secretary of the Navy, Washington, for constructing eight fuel-oil burning torpedo boat destroyers, Nos. 43 to 50: Class 1, hull and machinery on Government specifications; Class 2, hull and machinery on Government specifications, with speed-reducing gear; Class 3, on bidders' specifications for machinery: Bath Iron Works, Bath, Me., Class 1, two vessels, $766,000 each; Class 3, $746,000. New York Shipbuilding Co., Camden, N. J., Class 1, $788,000; Class 2, $781,000; Class 3, $779,000; alternate, $786,000; one vessel only. Fore River Ship & Engine Building Co., Quincy, Mass., Class 3, $778,800; alternate, $783,350; one vessel only. Union Iron Works Co., San Francisco, Class 1, two vessels, $803,650 each; Class 2, two vessels, $807,500 each; Newport News Shipbuilding & Dry Dock Co., Newport News, Va., Class 1, one $825,000, two $806,000 each; Class 2, one $828,000; two $809,000; Class 3, one $820,000, two $804,000; alternate, one $810,000, two $795,000. William Cramp & Son Ship & Engine Building Co., Philadelphia, Pa., Class 1, one $774,000, two, $764,000; three $762,000; four, $760,000; Class 3, one, $779,000; two $770,500; three, $767,500; four, $765,000; alternates, two $760,000, two $765,000. Each bidder bid on vessels of 29 knots and proposed to construct them in 22 to 24 mos. each.

Steel.—Washington, D. C.—Bids will be received until Aug. 15 by the Bureau of Supplies and Accounts, Navy Dept., Washington, for 38,700 lbs. of boiler-plate steel, Schedule 3809.

***Mail-Handling Apparatus.**—Washington, D. C.—Bids will be received until 3 p. m., Sept. 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the mechanical system of mail handling apparatus in the U. S. post-office at Washington, in accordance with the specification and drawings, copies of which may be obtained at Washington or at the office of D. H. Buranhm & Co., Archs., Chicago, Ill., at the discretion of the Supervising Architect.

+Life Saving Stations.—Washington, D. C.—The contract for the construction of life-saving stations at Blue Point, Quogue, Smith's Point, and Tiana, Long Island, has been awarded, it is reported, to GEORGE W. WINES, of East Quogue (L. I.) N. Y.

Grandstand, Etc.—Shreveport, La.—The citizens here voted to issue $100,000 bonds, it is reported, for improvements at the State Fair Grounds, including a steel grandstand, administration building, art building, machinery hall, etc.

+Levee Work.—Memphis, Tenn.—The St. Francis Levee Board has awarded the contract to LOWRENCE BROS., of Memphis, for enlarging eight miles of levee, extending from Mound City, Ark., around the loop on the old Hollybush crevasse, at $106,263. The work is in three sections and the contract calls for 466,000 cu. yds. of levee.

***Lock and Dam.**—Louisville, Ky.—Bids for constructing Lock and Dam No. 48, Ohio River, near Henderson, Ky., will be received by Capt. Lytle Brun, Corps Engrs., U. S. A., Louisville.

Concrete Tunnel.—Maumee, Ohio.—Bids will be received by the Board of Trustees of the Lucas County Children's Home, Maumee, Ohio, until 3 p. m., Sept. 2, for all labor and materials required in the construction of a concrete tunnel on the premises now occupied by the home, in accordance with plans and specifications on file at the office of W. S. Brainard, Trustee, 915 Ohio Bldg., Toledo, Ohio, and also at the office of Bacon & Huber, Archs., 755 The Spitzer, Toledo.

Ditch Work.—Peru, Ind.—The Commissioners of Miami County are preparing to let contracts for deepening and lengthening the Powell Ditch in Clay Township; and for the construction of Hamilton-Hammer ditch and the Hosteler-Lockridge drain.

Park Improvement.—Richmond, Ind. —The Richmond Lake & Park Co. is preparing to ask for bids for the improvement of a park, the construction of park buildings, and of an artificial lake. H. R. Robinson, Richard Sedwick and T. H. Davis are Directors.

Monument.—Princeton, Ind. — Bids will be received until Sept. 7, by the Board of County Commissioners of Gibson County, Princeton, for the construction of a soldiers' and sailors' monument. W. T. Roberts is County Audr.

River Improvement.—Brazil, Ind.—Plans are being prepared for straightening Eel River, from Neals Mills to Worthington, a distance of 23 miles. Estimated cost, $300,000.

Swimming Pools.—Indianapolis, Ind. —The City Council is preparing to ask for bids for the construction and equipment of swimming pools, one at Brighwood and one on South Meriden St. Blaine H. Miller is City Engr.

Fire Apparatus.—Indianapolis, Ind.—The Board of Public Safety is asking for bids for fire engines, chemical wagons, a hose wagon and other apparatus.

***Steel, Etc.**—Detroit, Mich. — Bids were received as follows on Aug. 1 by Col. C. McD. Townsend, Corps Engrs.,

U. S. A., Detroit, for furnishing and delivering at Sault Ste. Marie, Mich., about 380 tons of steel, etc., for lock construction: Penn Bridge Co., Beaver Falls, Pa., $36,846; J. & J. B. Milholland Co., $32,554; Minneapolis Steel Co., $38,787; Independent Bridge Co., $39,221; Modern Steel Structural Co., $42,144; Joliet Bridge & Iron Works, $44,819.

Drainage District.—Kankakee, Ill.—Bids will be received until 2 p. m., Aug. 21, by the Commissioners of Raymond Drainage District at the office of Robert D. Gregg, Engr., Kankakee, for the construction of the entire district. The work to be done is as follows: Main open ditch, 5,000 lin. ft., 14-ft. base, slope 1 to 1; 1,900 lin. ft., 12-ft. base, slope 1 to 1; 4,100 lin. ft., 10-ft. base, slope 1 to 1; 4,000 lin. ft., 8-ft. base, slope 1 to 1; 1,600 lin. ft., 6-ft. base, slope 1 to 1; Vanderwater Branch, open ditch, 2,700 lin. ft., 4-ft. base, slope 1 to 1; 3,890 lin. ft., 4-ft. base, slope 1 to 1; tile, 1,900 lin. ft., 16 No. 1 shale drain tile; 1,100 lin. ft., 15 No. 1 shale drain tile; 1,400 lin. ft., 12 No. 1 shale drain tile.

***Metal Wall Lockers.**—Chicago, Ill.—Bids will be received by Col. John L. Clem, Ch. Q. M., U. S. A., Federal Bldg., Chicago, until 11 a. m., Sept. 1, for furnishing and delivering f. o. b at place of manufacture 3,500 metal wall lockers of the following sizes: 500 single, 850 double, 300 triple, 100 quadruple. The quantities named are subject to increase or decrease of 20% if desired by the department. Full information and blank forms of proposal furnished on application.

+*Drains.—Elkhorn, Wis.—Fourteen bids were received on Aug. 1 by the Commissioners of Turtle Creek Drainage District No. 1, for constructing drains. The contract was awarded to YODER & SCHWARTZ, Nappanee, Ind., at $17,844. The highest bid submitted was $36,343.

+Lake Shore Protection.—Racine, Wis.—The Board of Public Works has awarded the contract for constructing a lake shore protection wall and pier between Tenth and Twelfth Sts., to SCHUETTER & KEELYN, Racine, at $27,390.

+Refrigerating Equipment for Battleship. — Grand Rapids, Wis.—The WISCONSIN ICE MACHINE CO., of Grand Rapids, has been awarded the contract for furnishing six ice machines and other refrigerating equipment for the new battleship, Texas.

Elevators, Etc.—Milwaukee, Wis.—The Board of Trustees, Public Museum, will receive bids until Aug. 12 for furnishing and installing elevators, and doing the work of plastering and furnishing and installing galvanized iron cornice on the $250,000 addition to the Public Museum and Library.

Life-Saving Station. — Milwaukee, Wis.—The Government will erect a life-saving station here. Address Col. C. S. Bromwell, Corps Engrs., U. S. A., Milwaukee.

Drain.—Rockwell City, Iowa.—Bids will be received until 1 p. m., Aug. 22, by J. A. Terry, County Audr., Rockwell City, for the necessary labor and material for the construction of Joint Drain No. 40-79 in Pocahontas and Calhoun Counties. The approximate feet of the various sizes of tile follow: 3,700 ft. 32-in., 1,150 ft., 30-in., 2,000 ft., 28-in., 4,100 ft. 26-in., 4,100 ft. 24-in., 5,900 ft., 22-in., 1,000 ft. 20-in., 1,500 ft., 18-in., 2,900 ft. 16-in., 1,400 ft. 15-in., 3,850 ft. 14-in., 7,145 ft. 12-in., 8,124 ft. 10-in., 4,363 ft. 8-in., 1,467 ft. 7-in.

+Ditch.—Glencoe, Minn.—Bids were received on Aug. 1 by F. D. Stocking, County Audr., for the construction of Ditch No. 19. The contract was awarded to the F. DESORMOUX CONSTRUCTION CO., of Cottonwood, Minn.

Drainage Ditch.—Kansas City, Mo.—Bids will be received until Aug. 15, by Brooks & Jacoby, Engrs., Shukert Bldg., Kansas City, for the construction of six to 13 miles of drainage ditch in Big Creek Drainage District No. 7, Henry and Johnson Counties, Mo. The ditch will have a 12-ft. base and be 17 ft. deep. Work is suitable for a floating dredge. Estimated cost, $100,000.

Revetment.—St. Louis, Mo.—Bids for revetment of the river bank of the city property from a point at or near the intersection of St. Cyr Ave. projected with the Mississippi River northwardly a distance of about 9,000 ft., will be received by the city until noon, Aug. 15. Plans, specifications, etc., can be had at the offices of the Board of Public Improvements and the Water Commissioner.

Addition to Dam.—Norwood, Colo.—Bids will be received until Aug. 20 by A. M. Browning, Engr., Norwood, for adding about 57,000 cu. yds. of earth work to a 15-ft. dam.

+Cableways.—Boise, Idaho.—The Secretary of the Interior, Washington, D. C. has awarded the contract to the LIDGERWOOD MFG. CO., Fisher Bldg., Chicago, Ill., for two cable ways for use in connection with the construction of the Arrowrock Dam, Boise project, Idaho, at $28,340. The cableways will have a span of 1,300 and 1,330 ft., respectively, and will carry an average load of eight tons. List of bidders noted on July 20.

Ditch.—Sumas, Wash.—The Commissioners of Whatcom County have directed Charles Lindberry, County Engineer, Bellingham, Wash., to make a survey for the construction of Sleasman Ditch, near Sumas, to drain a large area of low agricultural land.

+Dredge.—San Francisco, Cal.—The Standard American Dredging Co., of San Francisco, has awarded to the ST. JOHNS SHIPBUILDING CO., of St. Johns, Ore., the contract to build the hull of a new dredge at about $19,000. The dredge complete will cost about $200,000. It will be 149.8 ft. long, 40 ft. beam and will have 12 ft. 7½-in. depth of hold. The two suction pipes will be 22 ins. in diameter. It is expected to complete the hull in 90 days.

***Removing Rock.**—San Francisco, Cal.—Bids for removing Rincon Reef and Contissima Rock, in and near San Francisco Bay, Cal., were received on July 27, by Col. John Biddle, Corps Engrs., U. S. A., San Francisco, as follows: (a) Rincon Reef, (b) Contissima Rock: Robert Wakefield, Portland, Ore., (a) $51,000; San Francisco Bridge Co., San Francisco, Cal., (a) $47,700, (b) $118,000; Rudolph Axman, 95 Market St., San Francisco, (a) $23,000, (b) $97,000; A. E. Elliott and M. G. Axman, San Francisco, (a) $34,700; N. R. Harris, San Francisco, (a) $34,700, (b) $96,400; Healy-Tibbitts Construction Co., San Francisco, (a) $26,300; Standard American Dredging Co., San Francisco, (a) $55,000, (b) $39,000; Grant Fee, San Francisco, (a) $73,000, (b) $143,000.

Dredging.—San Francisco, Cal.—Bids were received as follows on July 24 by Lt. Col. T. C. Rees, Corps Engrs., U. S. A., San Francisco, for dredging in San Paglo Bay, Cal., 2,506,000 cu. yds.: Tweeden & Jones, Tacoma, Wash., 23¼ cts. per cu. yd.; total, $582,645; Pacific Coast Dredging & Reclamation Co., San Francisco, 24 6/100 cts., $616,476; J. D. Harris, San Francisco, 20 cts., $501,200; Standard American Dredging Co., San Francisco, 19⅝ cts., $492,847; San Francisco Bridge Co., 18⅞ cts., $473,007.

Retaining Wall.—Needles, Cal.—The Atchison, Topeka & Santa Fe Ry. Co. has made a large appropriation for the construction of a reinforced-concrete retaining wall along the banks of the Colorado River to protect the round-house and machine shops. C. A. Morse is Ch. Engr., Topeka, Kan.

Bucket Excavators.—Los Angeles, Cal.—Bids will be received until Aug. 14, by the Board of Public Works, for furnishing one bucket excavator. Horace B. Ferris is Secy. Bd.

+Elevators.—Los Angeles, Cal.—Morgan, Walls & Morgan, Archs., have awarded a contract to the OTIS ELEVATOR CO., 218 East Fourth St., Los Angeles, for furnishing and installing six passenger elevators, one drum-type electric freight elevator, one electric automatic elevator for banking room and two sidewalk elevators in the 11-story and basement building, corner Seventh and Spring Sts., at $48,345.

Fountain, Etc.—Santa Monica, Cal.—Bids will be received until Aug. 25 by L. A. McLaughlin, Supt., National Soldiers' Home, Santa Monica, for the construction of a fountain and pipe lines.

Wharf. — Papineauville, Que.—Bids will be received until Aug. 23, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for the construction of a public wharf at Papineauville. Plans, specifications and form of contract can be seen and forms of proposal obtained at the offices of J. L. Michaud, Dist. Engr., Merchants Bank Bldg., St. James St., Montreal, Que.; on application to the Postmaster at Papineauville, and at the office of R. C. Desrochers, Secy. Dept. Public Wks., Ottawa.

Tower, Etc.—Ottawa, Ont.—Bids will be received until Aug. 26 by A. Johnston, Deputy Minister, Dept. Marine and Fisheries, Ottawa, for the erection of a concrete tower, dwelling, boathouse, and oil shed in the Strait of Juan de Fuca.

Docks.—Port Arthur, Ont.—The City Council and the Canadian Pacific Ry. Co. have entered into an agreement, it is reported, whereby the company consents to construct new passenger docks to cost $260,000 and give running rights over its lines from West Fort to the Grand Trunk Pacific Ry., in consideration of exemption on its property. D. McNicoll is Vice-Pres., Montreal, Que.

Railway Grading.—Ontario.—The Superior Construction Co., Ltd., Espanola, Ont., will sublet contracts for the construction of 101 miles of the Algoma Central & Hudson Bay Ry.

+Wharf, Etc.—Ottawa, Ont.—Contracts have been awarded by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, for public improvements as follows: Wharf at Montebello, Labelle County, Que., to BELANGER & BRO., of Papineauville, Que., at $6,399; wharf and stone approach at Beaumoris, Muskoka, Ont., to the UNION CONSTRUCTION CO., of Ottawa, at $23,944.

+Seawall. — Toronto, Ont. — The contract has been awarded by the city to PETER ARNOT, of Toronto, for the construction of a seawall in Lake Ontario.

Turning Basin.—Thorold, Ont.—Bids will be received until Aug. 21, by L. K. Jones, Secy. Dept. Rys. & Canals, Ottawa, Ont., for the construction of a turning basin in the Welland Canal. Plans, specifications, etc., on application to Chief Engineer, Ottawa, or Superintending Engineer, St. Catharines, Ont.

CONTRACT PRICES.

+*Bridge, Shreveport, La.—Bids for constructing a steel traffic bridge over Red River, Hedrick & Cochrane, 1118 McGee St., Kansas City, Mo., Engrs., were received on Aug. 1, as follows: (A) Midland Bridge Co., Kansas City, Mo.; (B) Missouri Valley Bridge Co., Leavenworth, Kan.; (C) J. W. McMurry Contracting Co., Kansas City, Kan.; (D) Union Bridge and Construction Co., Kansas City, Mo.; (E) PETER McGEE, Kansas City, Kan. (awarded contract). The item bids were:

Steel Plate Girders, Et[illegible] [illegible]anama.— Bids for structural steel [illegible] e girders, manganese steel casting[illegible] ocomotive and car springs and pil[illegible] ill be received by Maj. F. C. [illegible] s. Corps Engrs., U. S. A., Gen. Pu[illegible] sing Offi-cer, Isthmian Canal Com[illegible] Washington, D. C., until 10.30 a. [illegible] Aug. 28. Blanks and general infor[illegible] on relating to this circular No. [illegible] may be obtained at Washington [illegible] the offices of the Assistant Purc[illegible] g Agents, 24 State St., New York; [illegible] Whitney-Central Bldg., New Orle[illegible] La., and 1086 North Point St., Sa[illegible] Francisco,

BRIDGE SHREVEPORT, LA.

	A	B	C	D	E
1,860 cu. yds. mass concrete in bases Pier No. 2	$13.00	$6.50	$9.00	[illegible]	$9.50
1,360 cu. yds. concrete in bases Piers 1, 3 and 4	7.50	6.00	12.00	[illegible]	9.00
384,000 lbs. structural steel in bases Piers 1, 3 and 4	.05	.04	.04	[illegible]	.03½
1,950 cu. yds. excavation in base Pier No. 2	4.00	3.50	5.20	[illegible]	3.50
830 cu. yds. excavation below low water, Piers 1, 3 and 4	13.50	8.00	8.10	[illegible]	6.00
630 cu. yds. excavation above low water, Piers 1, 3 and 4	2.50	4.00	1.50	[illegible]	3.00
1,100 cu. yds. concrete in shafts and copings, Piers 1, 2, 3 and 4	12.00	12.00	12.00	[illegible]	10.00
540 cu. yds. concrete in shafts and bases of all pedestals	9.00	7.00	7.00	[illegible]	10.00
170 cu. yds. concrete in abutment A	9.50	7.00	7.00	12.00	10.00
150 cu. yds. concrete in abutment B	13.00	12.50	7.00	[illegible]	10.00
800 cu. yds. excavation for pedestals and abutments	1.00	1.00	.50	.60	1.00
85,000 lbs. reinforcing steel	.03	.03	.03	.04	.02
1,260 lbs. metal in anchor bolts	.05½	.03	.03	[illegible]	.03
100 cu. yds. excavation brick masonry abutment A	2.50	1.25	1.00	5.00	1.00
Total summation of schedule prices	$99,454	$76,127	$86,195	$85,0[illegible]	$79,282
Total lump sum bid	$99,454	$97,500	$84,335	$92,510	$78,692

U. S. POSSESSIONS AND CUBA.

(**Denotes that this work is advertised in Engineering News.*)

+Library Building. — Hawaii.—The contract for constructing a library building, 134x89 ft., at Honolulu, T. H., has been awarded to LORD & YOUNG, of Honolulu, by the Board of Trustees of the Honolulu Library Board.

+Steel Castings, Etc.—Panama.—The EXCELSIOR TOOL & MACHINE CO., of East St. Louis, has been awarded the contract by the U. S. Government for supplying steel castings, bolts and nuts for the Panama Canal at about $25,000.

+Wharf.—Cuba. — The contract for the construction of a timber wharf, etc., at the Naval Station, Guantanamo, Cuba, has been awarded to HENRY MONK, of Pensacola, Fla., at $36,400. Bids were opened on July 8 by the Bureau of Yards and Docks. List of bidders noted July 13.

Lumber.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 2 p. m., Aug. 11, for furnishing 200 M. ft. B. M. standard E & G box-car siding 13-16 × 5¼ ins. × 9 ft., surfaced four sides, pulled to dimensions given, to be in accordance with Yellow Pine Manufacturers' Association grade B and better.

Piling.—Panama.—Bids were received as follows on Aug. 7 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furinshing 865 creosoted piles, 85 ft. long, of long-leaf yellow pine or Douglas fir: A. H. Burton Co., 45 Broadway, New York, $52,073, pine; Ensign Lumber Co., Jacksonville, Fla., $49,262, pine; W. R. Grace & Co., San Francisco, $49,629, fir; Gulfport Creosoting Co., Gulfport, Miss., $51,394, pine; Robinson Lumber, Veneer & Box Co., New Orleans, La., $50,732, pine; Southern Creosoting Co., Slidell, La., $55,144, pine.

Creosoted Ties.—Panama.—Bids were received as follows on Aug. 4 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 30,000 creosoted ties, cypress, loblolly, short leaf yellow pine or Western yellow pine: Robinson Lumber, Veneer & Box Co., New Orleans, La., $47,100; Republic Creosoting Co., Indianapolis, Ind., $46,980; Southern Creosoting Co., New Orleans, La., $55,500; Gress Mfg. Co., New York, $39,600; American Creosoting Works, New York, $54,000; American Tie & Timber Co., New York, $42,900; Gulfport Creosoting Co., Gulfport, Miss., $42,900; W. R. Grace & Co., San Francisco, $40,800 on Douglas fir.

***Structural Steel.**—Panama. — Bids were received as follows on Aug. 7 by the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for the material for four intake bridges and the structural material (690,000 lbs.) for decking over operating machinery chambers in the locks: Belmont Iron Works, Philadelphia, Pa., $24,666; Des Moines Bridge & Iron Works, Pitsburg, Pa., $25,074; Independent Bridge Co., Pittsburg, $24,356; McClintic-Marshall Construction Co., Pittsburg, $26,053; Milwaukee Bridge Co., Milwaukee, Wis., $37,718; Phoenix Bridge Co., Phoenixville, Pa., $23,987; U. S. Steel Products Co., 30 Church St., New York, $21,739; J. B. Kendall Co., Washington, $24,627; Penn Bridge Co., Washington, $29,317.

Cal.; also from the U. S. engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ——, ——. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

Buildings.—Italy.—The Ministry of Public Instruction, it is reported, has been authorized to construct various buildings for Royal University, Rome.

Tramway, Water Extensions.—Russia.—It is reported that the city of Ekaterinoslav has been authorized to issue bonds for a tramway and for water-works extensions, etc.

+Battleships.—Chile.—JOHN BROWN & CO., LTD., of England, it is reported, has been awarded the contract by the Chilian Government for the construction of two battleships of the Dreadnought type.

Dry Dock Improvements, Etc.—Russia.—It is reported that bids are being asked by the Ministry of Commerce, St. Petersburg, for the construction and improvement of dry docks and of chain-testing stations.

Pumping Machinery.—British India.—Bids will be received until Oct. 1 by the Chairman of the Municipal Board, Cawnpore, for the supply and erection of two new pumping engines with boilers and fittings complete for the water-works system.

Bridge Work, Etc.—Spain.—The Ministry of Marine has been authorized to ask for bids, it is reported, for the construction and installation of a bridge between the Carraca Arsenal and Avanzadilla; for the repair, etc., of the channels communicating with dam No. 4 of the Arsenal, and, if necessary, extension of the work now in prospect, for the immediate use of the dam; and for the construction in the Arsenal of a tug-boat, tank-boats for water transport, and lighters.

Tug Boats.—Brazil.—Bids will be received until Sept. 5 at the offices of the Inspectoria de Engenharia Naval, Ministerio da Marinha, Rio de Janeiro, for the supply of two tug boats, one required for the harbors of the State of Sao Paulo and one for those of the State of Bahia. The tugs must not exceed 100 ft. between perpendiculars, must not draw more than 9 ft. 6 ins. when loaded and must be constructed of Siemens Martin steel and be capable of developing ten knots per hour. They should also be capable of towing a vessel of 1,500 tons displacement at a speed of five knots per hour. The material used in the construction of these tugs should conform to the requirements of Lloyd's Register.

EXAMINATIONS.

Assistant Metallurgical Engineer.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 23, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Metallurgical Engineer, Bureau of Mines, Department of the Interior, at $1,200 a year, and to fill vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancies by reinstatement, transfer or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Practical and technical questions, 40 points; thesis or report upon the uses of lead, 30 points; education, training, experience and fitness, 30 points. Applicants must have reached their 20th but not their 30th birthday. Examination form 1312.

Laboratory Aid and Engineer.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 6, to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Aid and Engineer, at $900 a year, in the forest products laboratory at Madison, Wis., and vacancies requiring similar qualifications, as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Arithmetic (simple tests in addition, subtraction, multiplication, and division of whole numbers and United States money), 10 points; operation and care of boilers and steam pumps, motors, shafting, etc., 30 points; training, experience and fitness, 60 points. Applicants must have reached their 18th birthday. Examination form 1312.

***Assistant Engineer.**—New York, N. Y.—Applications will be received until 4 p. m., Aug. 15, for the position of Assistant Engineer on pitometer and water waste work, grades D and E, by F. A. Spencer, Secy., Municipal Civil Service Commission, 299 Broadway, New York, for an examination to be held at 10 a. m., on Aug. 29. The subjects and weights are: Technical, 6; experience, 3; report, 1; 75% required on technical and 70% on all. Candidates are required to have a thorough knowledge of the principles and practice of hydraulics. Candidates for Grade D must show at least one year's experience with pitometer work. Candidates for Grade E are required to have had an experience with pitometer and water waste of at least three years. Minimum age, 21 years for Grade D; 24 years for Grade E. Vacancies, four (4) in Department of Water Supply, Gas and Electricity at salaries from $1,500 to $3,000 per annum.

Geologist.—Washington, D. C.—The U. S. Civil Service Commission announces an examinaion on Sept. 6-7, to secure eligibles, from which to make certification to fill a vacancy in the position of Geologist, Division of Mines, Bureau of Science, Philippine Islands, at $1,600 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Elementary chemistry, physics, and mathematics, 5 points; general geology and mineralogy, 10 points; economic geology of the metalliferous and nonmetalliferous minerals, 10 points; petrology, 25 points; essay on geologic topic requiring sketches or drawings (both English composition and drawing will be considered in rating this subject), 20 points; training, experience and fitness, 30 points. Applicants must have reached their 18th but not their 40th birthday. Examination form B. I. A. 2.

Building Inspector.—Washington, D. C.—The U. S. Civil Service Commission announces an examination to secure eligibles from which to make certification to fill a vacancy in the position of Building Inspector, at $1,200 a year, in Porto Rico, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement transfer, or promotion. Applicants should preferably be graduates of technical schools (engineering or architectural course) and have had at least one year of practical experience in building construction; but applicants who have had a common-school training (or better) and have had not less than four years' practical and general experience in building construction will be acceptable. There will be no educational examination for this position, and applicants will not be assembled for any of the tests, but they will be rated according to their training, experience and fitness. Applicants must have reached their 21st birthday. Examination form 1312.

Electrical Engineer and Draftsman.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 23, 24 and 25, to secure eligibles from which to make certification to fill a vacancy in the position of Electrical Engineer and Draftsman at $1,200 a year, in the office of the Supervising Architect of the Treasury Department, Washington, D. C., and vacancies requiring similar qualification, as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics (comprising arithmetic, plane and solid geometry, algebra to and including problems involving quadratics, plane trigonometry and mensuration), 10 points; theoretical and practical questions in electrical science (covering the subject with special reference to lighting and elevator work in public buildings), 20 points; drawing and design (involving ability to design and draw plans, etc., for all apparatus and machinery connected with electrical work in public buildings), 40 points; training, experience and fitness, 30 points. Applicants must have reached their 20th birthday. Examination form 1312.

Irrigation Engineer.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 6-7, to secure eligibles from which to make certification to fill several vacancies in the position of Irrigation Engineer in Irrigation Investigations, Office of Experiment Stations, Department of Agriculture, at salaries ranging from $1,800 to $2,000 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill one or more of the vacancies by reinstatement, transfer, or promotion. The duties of the position will be performed chiefly outside of Washington, D. C., and west of the Mississippi River. The work will consist in collecting irrigation data and information, conducting irrigation investigations, preparing reports, advising irrigators, etc. The positions call for persons who have thorough technical knowledge and a knowledge of agricultural operations; who are qualified to plan and carry out work independently and who can take charge of a given field and represent the office at all times. While engaged in work away from either official or temporary headquarters, the expenses of the engineer are paid. The examination will consist of the subjects mentioned below, weighted as indicated: Practical questions on irrigation engineering, 35 points; drawing (a practical test of the competitor's knowledge of irrigation and his ability to draw and letter), 10 points; thesis or report covering original work (to be submitted to the examiner on the first day of the examination), 25 points; education, training, experience and fitness, 30 points. Applicants must have reached their 25th but not their 40th birthday. Examination form 1312.

Agricultural Inspector.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 6-7, to secure eligibles from which to make certification to fill twelve vacancies in the position of Agricultural Inspector in the Philippine Service, at entrance salaries of $1,200 and $1,400 a year, the majority of the vacancies being at $1,400 a year, and vacancies requiring similar qualifications as they may occur in that service, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. Additional vacancies in this position are anticipated, and it is estimated that about twenty-five appointees may be needed. As difficulty has been experienced in securing eligibles for this position, qualified persons are urged to enter this examination. Applicants will be admitted to the examination regardless of the extent of their education, training, and experience, but preference in appointment to the existing vacancies will be given to eligibles who are graduates of agricultural colleges, preferably having had a short course in veterinary medicine. This examination will comprise a basis, consisting of obligatory subjects, and the optional subjects mentioned below. English composition and report writing, 30 points; arithmetic (fundamental rules, fractions, percentage, interest, discount, analysis, and statement of simple accounts), 20 points; general educational training, 50 points. No competitor who attains an average percentage of less than 70 in the obligatory subjects and an average percentage of less than 70 in at least one of the optional subjects will be eligible for appointment. Each optional subject will comprise the following elements: A thesis, preferably upon some phase of the subject, to be submitted with the application, 20 points; practical questions, 60 points; training and experience in the specific work covered by the subject, 20 points. Applicants must have reached their 18th, but not their 40th birthday. Examination form B. I. A. two.

INDUSTRIAL NOTES.

The Barron & Cole Co., Barron Bldg., Franklin St. and West Broadway, New York, has taken on the eastern, southern and Canadian sales managership for the Youngstown Car & Mfg. Co.

H. W. Johns-Manville Co., 100 William St., New York, N. Y., will move into its new quarters, about May 1, 1912, occupying the entire building, which is now being constructed by them at 41st St. and Madison Ave.

The Aylsworth Agencies Co., 143 Second St., San Francisco, Cal., representing the Steel City Electric Co. whose factory and main offices are at Pittsburg, Pa. The Pacific Coast Co. will carry a large and complete stock of specialties.

The Youngstown Armature & Construction Co. has received an order from the City Investment Co., Cleveland, Ohio, for a five-panel combination lighting and motor control switchboard; also an order for a seven-panel switchboard from the Republic Rubber Co., Youngstown, Ohio.

The Sterling Employment Agency, a new company, has opened an office at 155 East Fourth St., New York, N. Y. The proprietors are William Howell and John L. Bilgoray, both of whom were connected with the National Employment Exchange. Mr. Bilgoray has had many years experience in finding and transporting laborers to all parts of this country.

Pig Iron Production in the United States amounted to 11,665,796 tons; this was smaller than in the similar period in 1910, 1907 and 1906. In view of the small buying by the railroads this must be considered good but the question naturally arises "Are we drifting into a period like that from 1891 to 1896, inclusive, when each year the output failed to reach the record tonnage of 1890.

The Department of Engineering, State of California, Sacramento, Cal., announces that it will be pleased to receive catalogs of various engineering specialties, also of machinery, and, in fact, any material which goes into engineering construction. The Purchasing Department has been organized in charge of G. H. Nichols, Purchasing Agent, and this department has occasion to buy large quantities of all classes of building material.

The Hildreth-Jones Co., Inspecting and Supervising Engineers, has been formed by a combination of Hildreth & Co., of New York, and the Morgan T. Jones Co., of Chicago. Mr. Hildreth has been in business as a consulting and inspecting engineer since 1888; Mr. Jones was for about ten years with R. W. Hunt & Co., and for seven years president of the American Bureau of Inspection and Tests. Mr. Morgan T. Jones will be in charge of the western district, with headquarters in Chicago.

The Chicago Pneumatic Tool Co., Chicago, Ill., announces an important change in the trade designation of the Air Compressors manufactured by this company, which heretofore have been known as the Franklin Compressors, the compressor works being located at Franklin, Pa. Because of the fact that its pneumatic tools, electric drills, rock drills and other articles of manufacture are invariably identified with the name of the company, it has been determined to hereafter use the trade name "Chicago Pneumatic" as applying also to the air compressors.

Telephone Train Dispatching.—The Baltimore & Ohio R. R. has ordered of the United States Electric Co., 95 William St., New York, Gill Selector telephone train dispatching outfits for 40 stations, to be used in the extension of its telephone dispatching circuits from Clarksburg to Salem, W. Va. A message circuit will parallel the train wire. This installation will complete the train dispatching circuit from Grafton to Salem, and is of interest as a refutation of the report spread about three months ago that the Baltimore & Ohio was to abandon telephone dispatching.

Work in Mexico.—All construction work in Mexico was retarded and in many cases abandoned during the revolution. Letters from several engineers in Mexico indicate that there is little probability of new construction work being started until after the election and inauguration of the next President. It is understood that the Southern Pacific Co. is now approaching the city of Tepic with its line and that the connecting link to Guadalajara will be rushed to completion as soon as the country becomes quiet. This work will not be started, however, until after the rainy season, or perhaps October. The revision of lines on other railways will undoubtedly be made if the country becomes quiet.

The Atlas Car & Mfg. Co., of Cleveland, Ohio, has recently delivered to the Westinghouse Electric & Mfg. Co., of East Pittsburg, Pa., three steel cars of an entirely new design, the joint product of the Westinghouse and Atlas Co. engineers and approved by the P. R. R. engineers, to be used for shipping large transformers completely assembled, ready for installation and use upon arrival at their destination.

These cars are 35 ft. 5 ins. long, with a capacity in the well of 130,000 lbs. while for a load that can be spread over the entire car the capacity is 205,000 lbs. Notwithstanding this capacity, the floor surface in the well is but two feet, two inches above the tops of the rails, thus affording a maximum amount of clearance under bridges. The car frame is of heavy built-up steel girders and the trucks are of 205,000 lbs. capacity with 6 × 11 in. journals, and are equipped with 33-in. rolled steel wheels. Center plates are of wrought steel and the journal boxes, riders, etc., conform to M. C. B. requirements for 205,000 lbs. capacity journals. Each car is equipped with Westinghouse air brakes and friction draft gear and weighs 53,000 lbs.

The cars were built to take the place of the special cut-out steel cars, with strong center floors suspended at about axle height from heavy frames, with a capacity of 70,000 lbs., built for the Westinghouse Co. some time ago, which proved inadequate for the large transformers, 15 of which were ordered from the company by the Southern Power Co. To facilitate the shipment of these transformers the new design steel cars were built.

The annual report of J. G. White & Co., Ltd., of London, recently presented at the company's twelfth annual general meeting by its chairman, Mr. J. G. White, shows the success of an engineering firm of American origin, though operating entirely as a British company. The English company is the direct outcome of the successful operations of J. G. White & Co., Inc., of New York, in foreign territory. Organized in 1900, the English company was equipped to undertake the largest problems in the field of consulting, designing and supervising engineering and construction, as well as the operation of public service properties and participation in financing such properties.

The English company has this year declared a total dividend of 12% on its preferred stock and 62% on its common stock, after which the net earnings for the year have been sufficient to write off the balance of "purchase of business" account and increase the special reserve and surplus account to an amount equaling the total dividends paid. This has been done after making ample provision for contingencies and without writing up the value of securities owned. Some of these securities have increased materially during the year, so that even greater profits were actually made, although not realized, and consequently, not considered as earned. The market value of the ordinary shares, par value £1, has increased from £1 6s. in 1906 to £7 4s. in 1911.

The chairman in his report stated in part: "The net profit for the year amounts to £91,466, as against £64,801 for last year; the quick assets of the company in the form of cash and loans against securities, amount to £136,331, an increase of about £18,000 over the figures shown in the preceding year. This quick asset item is nearly double the total single creditor item on the other side of the balance sheet. The figure for investments stands at £150,781, which is also considerably more than twice the company's total debts. This item shows an increase of approximately £28,000 over last year.

The Worcester Polytechnic Institute of Worcester, Mass., has established an experiment station at Chaffins, near Worcester, where the institute's hydraulic engineering laboratories are located, to carry out a long series of tests upon propellers, the faulty design of which is one of the causes of breakdown and accident in aeroplanes. The tests are to be run under conditions as they exist in working machines.

The apparatus was designed by David L. Gallup, Asst. Prof. of Gas Engineering, who took as a basis the apparatus which has been used in testing current meters. A large shaft is embedded in a boulder in the bottom of the lake which supplies water to the hydraulic plant. At the top of this shaft is a heavy boom, 84 ft. in length, which swings in a circle of 42 ft. radius, making a circumference of approximately 264 ft.

The propeller is mounted on one end of this boom, its axis being tangent to the circumference at that point, and is driven by a 75 HP. variable speed motor located at the center of the boom. At the present time the boom is turned on its axis by the action of the thrust exerted by the propeller, but later a supplementary motor is to be installed which will drive the boom at a speed up to at least 60 miles an hour at the tip. The tip speed of the boom or the velocity of the propeller through the air is measured by means of a delicate electrical arrangement, and is checked by a Warner speedometer, showing the speed in miles per hour.

Tests are to be run on various makes of propellers to determine the relation between "standing" thrust and "moving" thrust, or, in other words, the propeller will be anchored and the thrusts obtained for various speeds of rotation of the propeller. Then the propeller will be operated at a definite number of revolutions per min., and various drags placed on the boom so that the speed of the propeller through the air will vary from 10 to 60 miles per hour. The resistance met with by the different shapes of blades in passing through the air will also be investigated, as well as pitot tube measurements to determine the variation and thrust from positions at the center of the shaft out to the tip of the propeller.

Railway Construction in Saskatchewan.—An active railway construction program is projected for the Dominion generally and for Saskatchewan particularly, in the present fiscal year. In Saskatchewan over 1,000 miles of new line will be laid. Last year, this province led the others with total new track amounting to 476 miles. According to the plans so far announced by the three principal railroads of Canada, Canadian Northern will construct 330 miles in the province, Grand Trunk Pacific 342 miles and Canadian Pacific about 350 miles, making a total of about 1,120 miles. In addition to this new construction work, about 1,350 miles of new grading will be done.

The announced extensions of the Grand Trunk Pacific projected this year for Saskatchewan are as follows: Melville to Regina, 70 miles; Battleford to Biggar, 50 miles; Regina to boundary line, 90 miles; Regina to

Moose Jaw, 40 miles, and Young to Prince Albert, 90 miles.

Concerning the completion of the Grand Trunk Pacific and the Grand Trunk from ocean to ocean, President Hays, who recently completed a six-weeks' tour of inspection of the greater part of the system, says the line will be completed in 1914. This is a year later than the estimate made early in 1910. Mr. Hays explained that in certain sections of the line good construction progress had been made while in other sections, owing to the difficulties presented by the rough country and also by a scarcity of labor, construction has been carried forward very slowly.

Good construction progress has been made on the sections of the road running through the clay belt of Northern Ontario. The main section is completed a considerable distance both east and west of Cochrane, a divisional point, and the present terminus of the Temiskaming Railway. On both sides of the line there is good grazing and farming land.

From Winnipeg to Edmonton, over 90% of the territory on both sides of the line is excellent wheat growing land, while the remaining is adapted to grazing. The present wheat belt and as yet unused fertile land of Western Canada, extends for about 200 miles west of Edmonton in Alberta, and its opening will serve in time, to make of that town the distributing center of the Peace River region. This region is rapidly filling up with settlers.

The Grand Trunk Pacific, when completed, will be made up as follows: Moncton to Winnipeg (National Transcontinental, under construction), 1,805 miles; Winnipeg to Edmonton, construction of which section is completed, 793 miles, and Edmonton to Prince Rupert, partly constructed, 962 miles. By the time the main line is finished to the port of Prince Rupert, the company's branch line, from Montreal to the main line will have been built and put in condition to handle traffic.

The Steel Plate Pool—Some new evidence bearing on the business methods of corporations engaged in the iron and steel industry has been brought out by the Stanley investigating committee during the past two weeks. The statements made by men who have been prominent in the industry since 1900, were well guarded, however, and no crime has been clearly established. The most clear cut case of intent to regulate prices by agreement that has developed, is that of the Steel Plate Association of the United States The committee had a printed copy of the agreement that provided for the distribution of the tonnage of eleven producing organizations on a percentage basis. As a partial off-set to the damaging character of that document, however, sworn testimony was made that the agreement was not signed by the members of the association. It was also reasonably established that all copies which had been distributed for signatures were called in and burned when it was found to be of an illegal nature. The following companies and per cent. of tonnage, are named in the paper offered in evidence by Mr. Stanley: Carnegie Steel Co., 46.25%; Jones & Laughlin Ltd., 4.75%; Illinois Steel Co., 11%; Crucible Steel Co., of America, 4.50%; Otis Steel Co., 2.50%; Tidewater Steel Co., 3%; Lukens Iron & Steel Co., 7.50%; Worth Bros Co., 7%; Central Iron & Steel Co., 8%; American Steel & Wire Co., 5.50% and the Glasgow Iron Co., to the extent of sales up to 40,000 tons, should the company be able to accomplish them prior to Dec. 31, 1901. It also provided that each member should submit a sworn monthly statement relating to shipments, and for the imposition of penalties when the apportioned amount was exceeded Any member who shipped beyond his allotment was required to pay 0.35 cts. per lb. on such excess into the treasury of the association, and this was credited to members who did not ship their full share, to the extent of such shortage. A guarantee fund of $100,000 was formed to insure compliance with the agreement. This was provided by an assessment of $1,000 for each per cent. of tonnage allotted to a member. The testimony of W. C. Moreland, treasurer of the Jones & Laughlin company was most definite of any taken, in its relation to a continuation of the terms of the agreement after the copies had been burned. Mr. Moreland submitted an account of his company with the association which showed that in 1902 $34,536, and in 1905 $16,328 had been paid to Willis L. King, treasurer of the pool. These payments were made in the adjustment of differences created by operating along the lines of the original agreement. A. F. Huston, President of the Lukens Iron & Steel Co., one of the organizers of the Steel Plate Association admitted the identity of the copy put in evidence and stated that its purpose was "to avoid destructive competition." "Prior to that time," he explained, "the price of steel was down to one cent a pound," and companies were basing the value of ore only on the cost of getting it out of the ground and common labor was getting from 90 cts. to $1. a day. Conditions generally were chaotic, according to Mr. Houston, and the only cure was to eliminate competition, and do business within restricted limits, as to price, and tonnage.

W. S. Mitchell, cashier of the Milton National Bank, Pittsburg, submitted a certified copy of a ledger account of that bank with A. L. King, treasurer of the association, which showed deposits amounting to $241,833.13, had been made during the period covered by Feb. 2, 1901, and Jan. 30, 1902. On the latter date the account was closed.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogs recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins. and 9 x 12 ins.)

CULVERT PIPE.—Harry Bros. Co., New Orleans, La. Paper; 9 x 12 ins.; pp. 4; illustrated.

Open hearth iron for corrugated culvert pipe, tanks, etc., are briefly described. The rust resisting qualities of open hearth iron have made it particularly adaptable for these purposes.

DRAWING INSTRUMENTS.—Theo. Alteneder & Sons, Philadelphia, Pa. Stiff Paper; 5¼ x 7¾ ins.; pp. 109; illustrated.

This is a new edition of the standard catalog of Theo. Alteneder & Sons, and describes their line of drawing instruments and drafting room supplies. This firm has been manufacturing drawing instruments since 1849.

SHEET METAL.—Wheeli[illegible] Corrugating Co., Wheeling, W. [illegible]a. Paper; 6 x 9 ins.; pp. 192; ill[illegible]ated.

Sheet and corrugated m[illegible] for every purpose are illustrated a[illegible] described in this catalog, not only [illegible] building work but made into pails, [illegible] cans and kitchen utensils. A num[illegible] of illustrations of pressed meta[illegible]ilings are included.

SAND-LIME BRICK.—[illegible]rnational Sand-Lime Brick & M[illegible]nery Co., 90 West St., New Yor[illegible]ty. Stiff paper; 6 x 9 ins.; p[illegible]32; illustrated.

The manufacture of san[illegible]ime brick was introduced into this c[illegible]try from Germany in 1901. An imp[illegible]ement in the process known as t[illegible] "Division Method" was invented in [illegible] and the patents of that method a[illegible] now held by this company. This c[illegible]log contains a short description of [illegible]e process and examples of buildings [illegible]nstructed of sand-lime brick.

CEMENT.—Chicago Portla[illegible] Cement Co., Chicago, Ill. Pa[illegible]r; 6 x 9 ins.; pp. 68; illustrate[illegible]

About one-half of this bo[illegible]klet is devoted to an interesting de[illegible]ription of the process of the man[illegible]cture of Portland cement, from stripping the soil and quarrying the ston[illegible] to weighing the bags of finished ce[illegible]nt. The text is amply illustrated from views of the Chicago Portland Cement Co. plant. Several pages are given to a description of the plant of the Northwestern Malt & Grain Co., where eighteen circular storage tanks, 25 ft. in diameter and 78 ft. high, have been constructed of reinforced concrete. The last few pages contain interesting data on this company's cement plant, including the installation of a 210-ton McCully mammoth crusher, the largest type of crusher in the world.

For other Proposal Advertisements see pages

53, 54, 56, 60

of Advertisements and Construction News, page 74

FILTRATION PLANT.

MONTREAL WATER WORKS.

CONTRACT NO. 3.

Montreal, Que.

For the construction of Prefilters, Filtered Water Reservoir and appurtenances.

Sealed tenders, addressed to the Board of Commissioners of the City of Montreal and endorsed "Tenders for prefilters and filtered water reservoir," will be received at the office of the Board of Commissioners, in the City of Montreal, Canada, until twelve o'clock noon, on the 3rd day of October, 1911.

These tenders will be for constructing the prefilters, filtered water reservoirs and appurtenances, forming a portion of the filtration plant of the City of Montreal. The whole work is to be in accordance with the plans and specifications on file in the office of the Chief Engineer of Public Works of Montreal, and in the office of Hering & Fuller, No. 170 Broadway, New York City, from whom copies may be obtained upon depositing $25.00 to cover cost of same. To bona-fide tenderers and to others who return the plans and specifications in good condition before the date for receiving tenders, this amount will be refunded.

The prefilters consist of sixteen units, each with a capacity of 3¼ million Imperial Gallons per 24 hours equipped with strainer systems, filtering materials, piping systems, etc., and ready for successful operation. The filtered water Reservoir, with a capacity of 6¼ million Imperial Gallons, and the adjoining gate houses and conduits are largely of reinforced concrete construction.

The date for completion of this contract is September 1st, 1913.

Tenders shall be made upon blank forms, which are a part of the specifications, and shall be sealed and filed with the Board of Commissioners not later than the hour above stated.

No tender will be entertained unless made upon blank form above mentioned and unless accompanied by a certified cheque on a chartered bank of the Dominion of Canada, and payable at the City of Montreal, to the City Treasurer, for the sum of $40,000.00, which cheque shall be enclosed in the same envelope as the tender.

The tenders will be opened in the presence of the interested parties by the Board of Commissioners at a regular meeting held in their ordinary meeting room at noon on the 3rd day of October, 1911.

All tenders will be compared on the basis of the prices tendered for the work to be done, which are as follows:

Item 1.—Prefilters and appurtenances, filtered water reservoir, sub-structures of gate houses, conduits and connections with the existing aqueduct and suction well, pipe lines, etc., complete, as shown and specified.

Item 2.—Additional Earthwork.

Item 3.—Additional Concrete.

The Board of Commissioners reserve the right to reject the lowest or any tender.

By order of the Board of Commissioners.

L. N. SENECAL,
Secretary.

Office of the Board of Commissioners,
City Hall,
Montreal, August 7th, 1911

U. S. ENGINEER OFFICE, Louisville, Ky., August 7, 1911.—Sealed proposals for constructing Lock and Dam No. 48, Ohio River, near Henderson, Ky., will be received at this office until 11 a. m., (central time) September 7, 1911, and then publicly opened. Information on application. LYTLE BROWN, Capt. Engrs.

PRISON BUILDING.

Albany, N. Y.

NOTICE TO CONTRACTORS.

Sealed proposals for construction, including heating, plumbing and electric work, for the Cage, Connecting Corridors, Laundry and Bath House, Mess Hall and Kitchen Building, Power House, Punishment Prison and Conduits, including Power Plant, at Great Meadow Prison, Comstock, Washington County, N. Y., will be received by Joseph F. Scott, Superintendent of State Prisons, Capitol Bldg., Albany, N. Y., until 12 o'clock M, on the 31st day of August, 1911, when they will be opened and read publicly.

Proposals shall be accompanied by certified check in the sum of $20,000, and the contractor to whom the award is made will be required to furnish surety company's bond in the sum of $200,000 within thirty days after notice of award of contract and in accordance with the terms of Specification No. 1416. The right is reserved to reject any or all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the office of the Warden, Great Meadow Prison, Comstock, Washington County, N. Y., and at the office of the State Architect. A complete set of plans and specifications will be furnished to prospective bidders for the complete work, upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y., and upon the payment of a deposit of $25, which deposit will be forfeited if the drawings and specifications are not returned in good order.

PAVING.

Hasbrouck Heights, N. J.

Sealed proposals will be received by the undersigned on Monday, August 14, at 8 p. m., at Municipal Building, Hasbrouck Heights, N. J., for improving Terrace avenue.

Plans and specifications can be examined and all necessary information obtained at the office of Ralph D. Earle, Jr., County Engineer, Main street, Hackensack, N. J., any day except Saturday, between the hours of 10 a. m., and 4 p. m.

All bids must be presented by the bidders in person, or by their agents, to the undersigned at the above stated time and place. No bids will be received previous to the hour designated in this notice, and none will be received thereafter. All bids will be unsealed and the contents publicly announced at the above mentioned hour and place. All bids must be accompanied by a certified check for $1,000, and be enclosed in a securely sealed wrapper endorsed, "Bid for Terrace Avenue."

A bond will be required from the successful bidder for the faithful performance of the contract.

The Mayor and Council reserves the right to reject any or all bids.

Mayor and Council,
Hasbrouck Heights, N. J.
A. C. AUSTIN, Mayor.
G. H. RAMSDEN, Clerk.

WATER PURIFICATION PLANT.

MUSKOGEE, OKLAHOMA, PUBLIC IMPROVEMENTS.

Sealed proposals will be received by the Mayor and City Council of the City of Muskogee, until Tuesday, Sept. 5, 1911, at 10 o'clock a. m., and opened immediately thereafter, for the construction of a 6,000,000 gallon water purifying and softening plant for the City of Muskogee, Oklahoma.

Bids will be received at the present time for the Concrete Basins only.

A certified check for ten per cent. (10%) of the amount of bid shall accompany the proposal. Plans can be seen and specifications secured at the office of the City Engineer or at the office of the Consulting Engineer, No. 114 Liberty St., New York, on or after Aug. 17, 1911. The right is reserved to reject any or all bids, or to accept that one which, in the judgment of the City Council, is for the best interest of the City.

By order of the City Council.

E. H. FLEMING,
Commissioner.

T. P. CLONTS,
City Engineer.

ALEXANDER POTTER,
Consulting Engineer.

WATERMAINS AND SEWAGE PUMPING STATION.

Minot, N. D.

Sealed proposals will be received at the office of the City Auditor of the City of Minot, N. D., up to 7.30 p. m., August 28, 1911 for the construction of 10,000 feet of watermain extensions and for the construction of a Sewage Pumping Station. Estimated cost of above work, $20,000.

Information relating to the work can be obtained from the City Engineer, Minot, N. D.

By order of the Board of City Commissioners.

L. J. THOMPSON,
City Auditor.

Situations Wanted

Bridge and Structural Engineers

STRUCTURAL engineer (30), graduate C. E., single, 9 years' experience, seeks new engagement; private interview preferred. Address "D. B. 6," Engineering News, New York. 6-2t

Situations Open

(Or Vacant)

CAPABLE engineer wanted, having wide experience in structural steel design—also reinforced concrete—to take charge of office. Eastern man preferred. Address "E. B. 6," Engineering News, New York.

Miscellaneous Wants

WANTED to rent, hoisting engine, two drum and boom swinger. Derrick with bull wheel and 60 to 70 ft boom. WM. G. BROADHURST, Hackensack, N. J. 6-1t